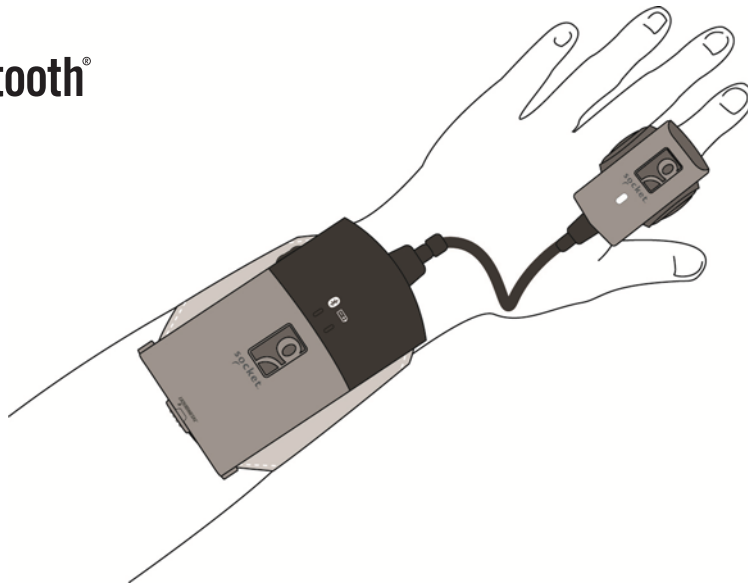


Socket *Bluetooth*® Cordless Ring Scanner™ (CRS)
Series 9

User's Guide



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The *Bluetooth* Cordless Ring Scanner includes technology licensed under United States Patent No. 5,902,991, 7,429,000 B1, D510,087S, D554,641 S, and D570,350, and European Community Registered Designs 000522289-0001 and 000522289-0002.

Reproduction of the contents of this manual without the permission of Socket is expressly prohibited. Please be aware that the products described in this manual may change without notice.

Feel free to contact Socket at:

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39700 Eureka Drive
Newark, CA 94560-4808
USA

Other than the above, Socket can assume no responsibility for anything resulting from the application of information contained in this manual.

Please refrain from any applications of the Socket *Bluetooth* Cordless Ring Scanner that are not described in this manual. Please refrain from disassembling the *Bluetooth* Cordless Ring Scanner. Disassembly of this device will void the product warranty.

You can track new product releases, software updates and technical bulletins online at:
<http://www.socketmobile.com/>



IMPORTANT! The information in this *User's Guide* is based on version 3 of the Socket *Bluetooth* Cordless Ring Scanner hardware, which includes devices with the following part numbers:

Ring Unit Part Number	Wrist Unit Part Number
8550-00027	8550-00028

The features described in this manual that do not apply to older hardware versions of the Socket *Bluetooth* Cordless Ring Scanner will be noted as such.

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1 | INTRODUCTION

Thank you for purchasing the Socket *Bluetooth* Cordless Ring Scanner (CRS) Series 9. This wearable device provides hands-free barcode scanning to boost productivity in warehousing, inventory control, shipment tracking, and other data capture applications.



SYSTEM COMPATIBILITY REQUIREMENTS

Operating System	Compatibility Requirements
Windows 8, 7, XP	Any of the following Bluetooth stacks: • Microsoft • Toshiba 4.00.34, 5.00.06F or later • Broadcom 5.1.0.1700 or later
Windows Embedded Handheld 6.x Classic / Professional Windows Mobile 2003, 2003SE or 5.0 for Pocket PC/Pocket PC Phone	Any of the following Bluetooth stacks: • Broadcom 1.5 or later • Microsoft • Stonestreet One 1.2.4 (Build 1783)
Android	Bluetooth enabled Android devices running OS version 2.3 or higher.
BlackBerry OS	Any of the following devices: Storm, Bold, Curve, Pearl
Symbian OS 9.1 or later	Any of the following devices: Nokia E61, E61i, E71

PACKAGE CONTENTS



Wrist unit



Ring unit



Cable



Software and Documentation



Finger straps (2)



Wrist strap



Li-ion battery



Cable clip

BATTERY CHARGER

Order separately, SKU# AC4048-1143



USB AC charging kit



Battery charger

PRODUCT REGISTRATION

Socket recommends that all customers register their products. Registered users benefit from priority technical support and can choose to get special offers and upgrade information. Register online at: <http://support.socketmobile.com>

ABOUT THE SOFTWARE

SocketScan 10™ software feeds scanned data into any open program, as if the data were manually typed. A configuration utility enables you to select Prefix/Suffixes, sounds, and other special settings for the CRS.

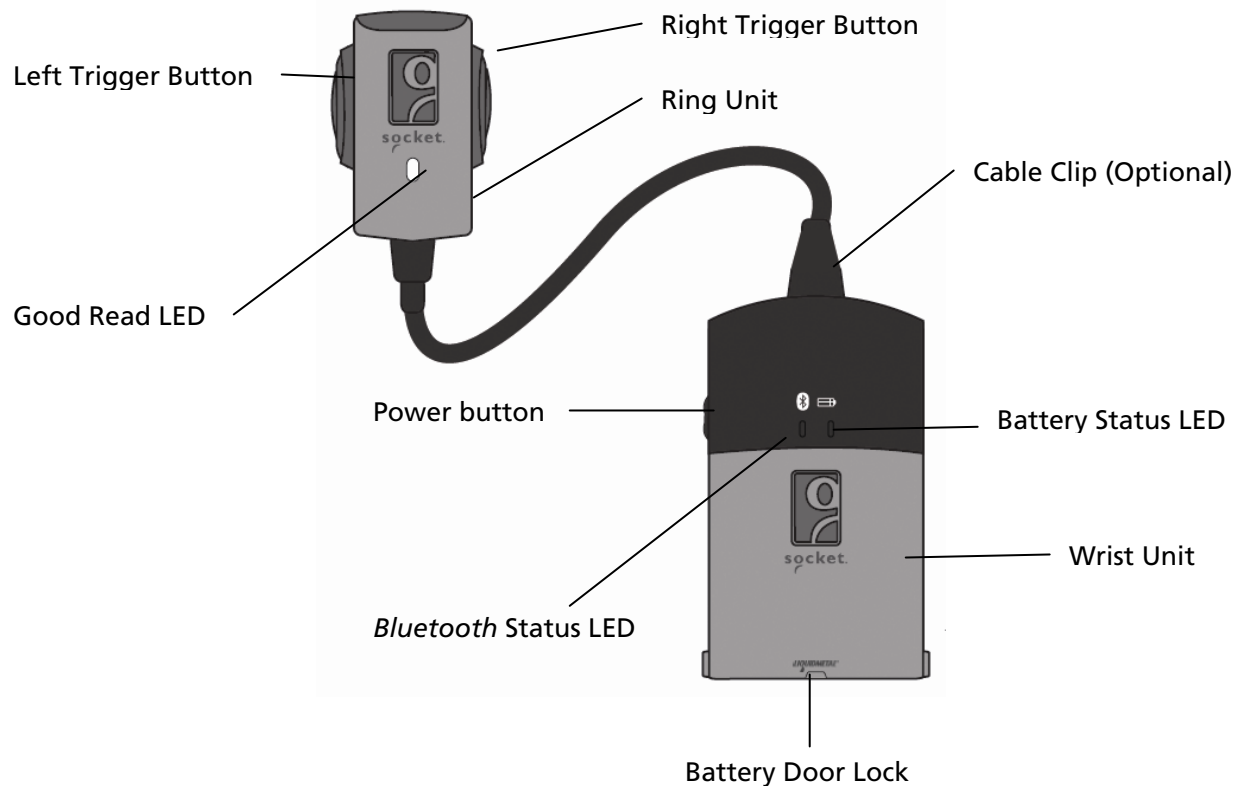
ACCESSORIES

	Accessory	SKU Number
	Charger	AC4048-1143
	Multi-Bay Charger: Charges up to 8 wrist units and/or spare batteries simultaneously	AC4046-1141
	Battery Inserts for Multi-Bay Charger (4 Pack): Enables charging of battery in Multi-Bay Charger without wrist unit	AC4047-1142

For information on these and other accessories, please visit:

<http://www1.socketmobile.com/products/bluetooth-scanners/accessories-bt.aspx>

PRODUCT DIAGRAM



Note: The Bluetooth Device Address is labeled on the bottom of the wrist unit. It helps you identify your CRS.



CABLE/FINGER STRAP SAFETY

The CRS is designed to break away from the hand or finger if subjected to unusual force. This feature is designed to reduce the risk or extent of injury in case the CRS gets entangled with industrial equipment. If the cable or finger strap breaks away during use, simply reassemble it to resume operation.

ADVANCED PROGRAMMING GUIDE

The SocketScan Advanced Programming Guide is available online at:
<http://www.socketmobile.com/support/downloads>

STATUS INDICATOR LEDs AND BEEPS

Ring Unit LED

LED	LED Activity	Meaning
Good Read (Green LED)	On	Data successfully scanned and sent to host device

Wrist Unit LEDs

LED	LED Activity	Meaning
Bluetooth Status (Blue LED)	On	Power button pressed
	1 blink per second	Bluetooth radio is on, no connection
	1 blink every 3 seconds	Scanner connected to computer
Battery Status (Red LED)	Blinking	20% battery capacity remaining
	On	10% battery capacity remaining
	Off	Off or Good Battery status

Wrist Unit Beeps

Beep Pattern	Meaning
2 beeps (low-high)	Power on
2 beeps (high-low)	Power off
1 beep	CRS connected to host computer (only when used with SocketScan 10)
2 beeps (same tone)	CRS disconnected from host computer
1 beep with green LED (optional setting)	Data successfully scanned and sent to host computer
3 long beeps	Cable disconnected from wrist unit
5 beeps	CRS has detected an error and reset

2 | HARDWARE PREPARATION

Note: The battery charger and AC adapter are sold separately, SKU# AC4048-1143.

ASSEMBLING THE AC ADAPTER

The AC adapter for the CRS charger comes with plugs for USA, Europe, and Australia.

1. Insert the appropriate plug for your region into the AC adapter.
2. While pressing the release button, push down on the plug and turn it clockwise until it locks into place. Release the button.
3. Plug into a power outlet. The two LEDs will flash.



CHARGING AND INSTALLING THE BATTERY

Notes:

- Please charge the battery for 3 hours before initial use.
- You can charge the battery before or after inserting it into the wrist unit.
- The charger can charge a wrist unit and spare battery simultaneously.
- Do not use the charger or scanner with other batteries, this will void the warranty.
- A fully charged battery can power 12,000+ scans in ~ 10 hours under normal conditions.

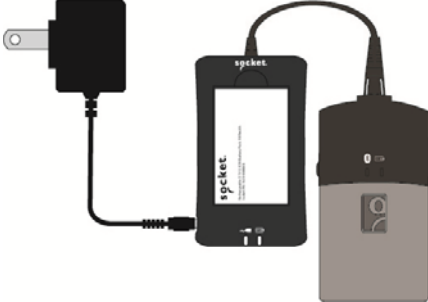
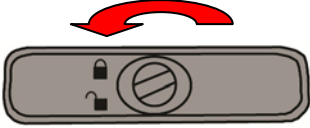
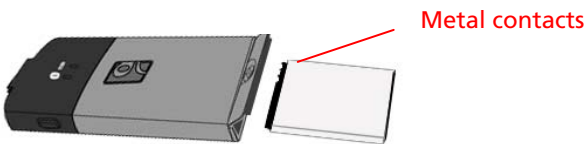
Battery Charger LEDs

Icon	LED Color	Description
	Yellow	Charging battery inside CRS wrist unit
	Green	Battery inside CRS is fully charged
	Yellow	Charging battery inside charger cradle
	Green	Battery inside charger is fully charged

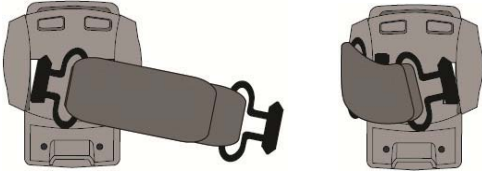
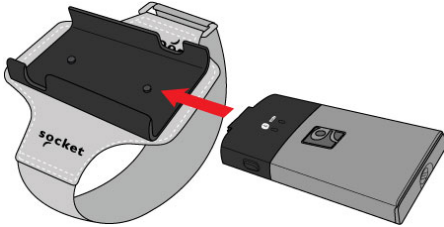
Note: Plugging the wrist unit cable into a CRS wrist unit without a battery may cause a series of flashing LEDs. To recover, unplug and reinsert the cable into the CRS wrist unit with a battery installed.

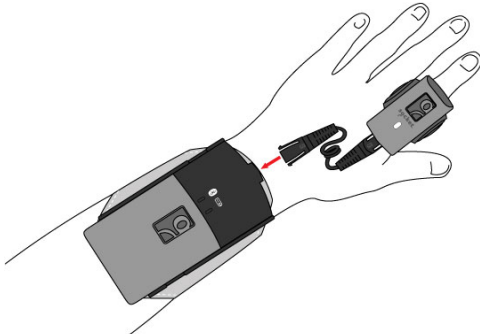
Note: Other charging options are online at: <http://www.socketmobile.com/products>

- *Multi-Bay Charger: Charge up to 8 wrist units and 8 spare batteries simultaneously. SKU# AC4046-1141*
- *Mobile Power Pack (not available in EMEA): Portable battery back can replace the AC adapter of either charger. SKU# AC4009-541*

Charging the battery	You can charge the battery directly in the charger or after installing it in the wrist unit. You can charge a wrist unit and spare battery simultaneously.  • When inserting a battery directly into the charger, make sure the metal contacts of the battery touch those inside the charger. • To charge a wrist unit, simply install the battery and connect the charger cable to the top of the wrist unit.
Unlocking the Battery Door	Use a coin or screwdriver to turn the lock counterclockwise to the position shown.  WARNING! To prevent damage to the lock, do not turn it too forcefully or past the position shown!
Installing the Battery	With the wrist unit right-side up, insert the battery with the blank side on top and metal contacts in front.  WARNING! To prevent damage to the battery, do not insert it backwards or upside-down! Close and lock the battery door. The door will not fully close if the battery is inserted wrong.

ASSEMBLING AND PUTTING ON THE CRS

STEP 1: Attach finger strap to ring unit.	Insert plastic clip into slot and gently push down. Repeat on other side.  Important! Do not twist the clips during insertion or removal! <i>Note: To remove, grasp a clip and gently pull out. Repeated removal may distort the post and make it unusable.</i>
STEP 2: Attach the wrist unit.	Press the wrist unit into the plastic holder of the wrist strap. Align the wrist unit so that the power button on the left side rests in the notch on the side of the plastic holder. 
STEP 3: Put on wrist strap.	When putting on the wrist strap, insert the end of the strap through either buckle (or both), depending on the thickness of your arm. 
STEP 4: Connect cable to ring unit.	Plug the narrow end of the cable into the connector on the ring unit. 

STEP 5: Put on the ring unit.	Insert index finger, adjust strap for a comfortable fit, and secure into place. 
STEP 6: Connect the cable to the wrist unit.	Connect the cable into the top of the wrist unit. 

Replacement Parts

Product	1 Pack SKU#	5 Pack SKU#	10 Pack SKU#
Coiled cable	AC4044-1139	N/A	AC4045-1140
Battery	AC4023-705	AC4031-714	N/A
Finger Strap	N/A0	N/A	AC4027-710
Wrist Unit Case	N/A	N/A	AC4029-712
Wrist Strap	N/A	N/A	AC4028-711
Velcro Strips	N/A	AC4030-713	N/A
Leather Strap Kit	AC4022-704	N/A	N/A

Note: To ensure best performance, cables should be replaced periodically. Socket recommends replacement of cables after 90 days of use or sooner depending on the work environment.

3 | SETUP FOR WINDOWS 8, 7, OR XP

This chapter explains how to install and use the Socket *Bluetooth* Cordless Ring Scanner (CRS) with a *Bluetooth* enabled computer running Windows 8, 7, or XP.

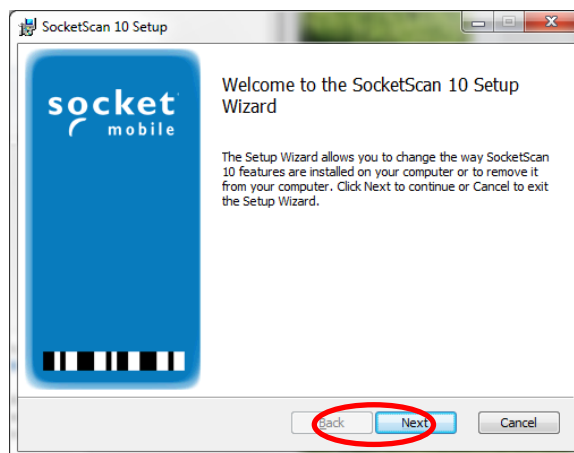


Note: Before you begin the instructions in this chapter, please charge and install the battery, as explained in Chapter 2, "Hardware Preparation."

STEP 1: INSTALL SOCKETSCAN 10 SOFTWARE

Note: Download the latest software free from: <http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/>

1. Find out if your system has a 32-bit or 64-bit processor. In the control panel, click **System** and check the System type.
2. Windows 8 or 7: Make sure you are logged into an administrative account.
3. Download SocketScan 10 software from: <http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/>
4. Click on the link for the appropriate EXE file.
5. Download and run the installation file.
 - **Internet Explorer:** In the Security Warning dialog, click **Run**. In the next screen, click **Run**.
 - **Firefox:** In the file opening screen, click **Save File**. In the Downloads list, click on the **SocketScan10-x.....msi** file. In the warning screen, click **Run**.
 - **Chrome:** Click on the button for **SocketScan10-x...msi** file at the bottom of Chrome. In the Security Warning screen, click **Run**.
6. The installation wizard will launch. Follow it to install SocketScan 10 for Windows.



If you are running an older version of SocketScan 10, uninstall it before proceeding with the newer installation. Make sure SocketScan 10 is not running before you start the uninstall process, and when prompted, restart your PC to complete the uninstallation.

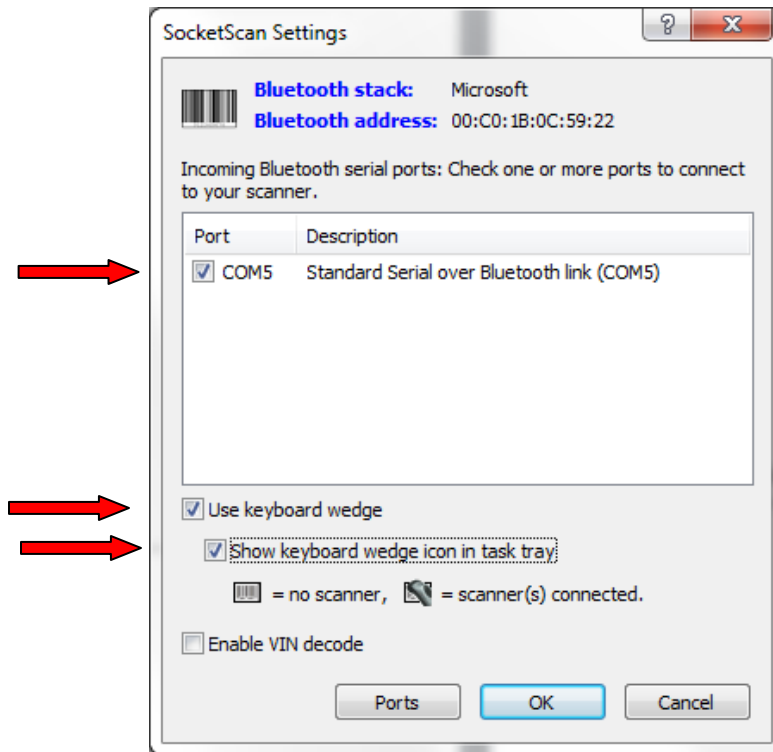
7. After software installation, restart your computer.
8. An shortcut icon for **SocketScan 10** will appear on your desktop.



STEP 2: CONFIGURE BLUETOOTH COM PORT

Press and hold the small power button on the left side of the wrist unit for at least 2 seconds, until you hear two beeps (low – high).

1. After software installation is complete, the SocketScan Settings screen will appear. Select an available incoming COM port for SocketScan 10 to use. Note the *Bluetooth* stack at the top of the screen.

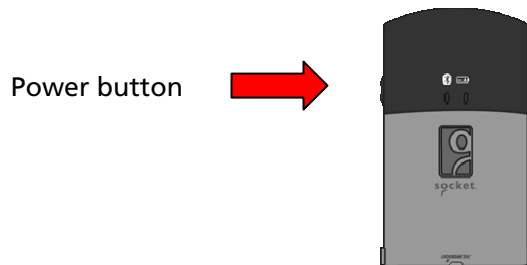


- Click **Ports** if a suitable incoming Bluetooth COM port is not listed and you would like to add one. Also, if SocketScan Settings lists multiple COM ports, you can determine if any are already paired to a Socket Bluetooth barcode scanner and/or which one is incoming.
- For the Toshiba Bluetooth stack, incoming COM ports are listed as **LocalCOM-Server**.
- For most users, **Use keyboard wedge** and **Show keyboard wedge icon in tray** should be selected. For more information on keyboard wedge and VIN decode options, please see [SocketScan 10 Settings](#).

2. After making all your selections in SocketScan 10 Settings, click **OK**.

STEP 3: PAIR THE CRS WITH YOUR COMPUTER

1. Turn on the CRS. Press and hold the small power button on the left side of the wrist unit for at least 2 seconds, until you hear two beeps (low – high).

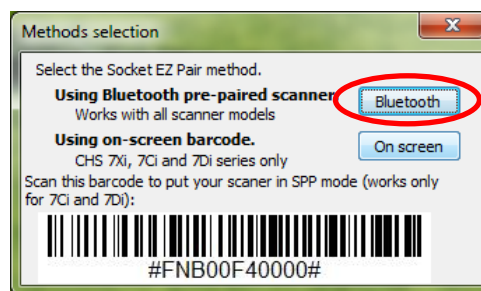


Notes: See page 10 for information on beeps and LEDs. If the Ring Scanner is not attached, the 2 beeps will be followed by 3 long beeps.

2. Use your Bluetooth software to start a device search.
 3. Select **Socket CRS [xxxxxx]**. If prompted for a passkey, enter **0000** (four zeroes). Complete the remaining screens of the wizard.
- Note: If prompted, select Socket Serial Port service and select an available COM port.*
4. Make sure SocketScan 10 is running. If needed, double-click on the SocketScan 10 icon on your desktop.



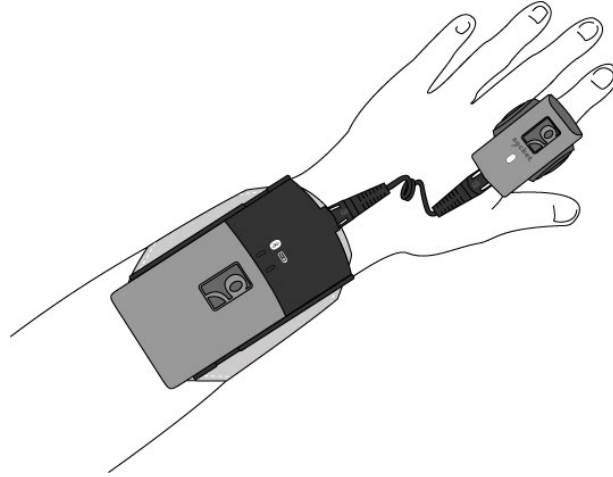
5. Click on the SocketScan 10 icon  in the task tray. In the pop-up menu, click **Socket EZ Pair**. Click **Bluetooth**.



6. Select **Socket CRS [xxxxxx]** and click **Pair**.
7. The PC will connect to the CRS, indicated by a beep. The CRS will then disconnect from the PC, indicated by two beeps. Click **OK**.
8. After the CRS connects and is ready to scan barcodes, it will beep once. The task tray icon will also change.
9. Close Socket EZ Pair. The Registration screen will appear. If desired, register your CRS.

STEP 4: ASSEMBLE AND PUT ON THE CRS

If you have not done so already, assemble and put on the scanner, as explained in Chapter 2.



STEP 5: OPEN YOUR APPLICATION

1. Start the Windows application that you want to enter scanned data into. Make sure a document or spreadsheet is open.
2. Place the cursor where you want data from the next scan to go.

STEP 6: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and aim your finger at the barcode. The red laser beam should cover the entire width of the barcode. For example, try scanning the barcode below:



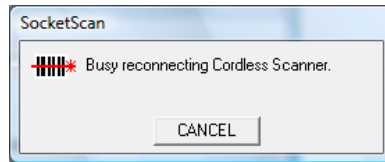
Note:

- After data is read and sent to the computer, the laser will turn off. Depending on your scanner settings, the scanner may beep and/or the ring scanner's LED may flash green to indicate a good read.
 - If no data is read in a few seconds, the laser will turn off, and you must try again.
 - See Appendix B for scanning tips.
2. After a successful scan, data should appear in your document. By default, the cursor automatically advances to the next cell or line, ready for the next scan.

Note: Wait for the "Good Scan" indication before you scan another barcode. If you try to scan too fast, the device can lock up until you stop scanning.

Reconnecting

The scanner will disconnect if it is powered off or moves out of the connection range. If the scanner is powered back on or returns back in range within 3 minutes after disconnection, SocketScan 10 will automatically attempt re-connection according to the “auto re-connect” settings you chose in SocketScan 10.



- Failure to reconnect will cause the scanner to end auto-reconnect mode and disconnect. You will then be required to make a connection manually through SocketScan 10 by clicking on the **Socket CS Connect** icon on the desktop.
- A manual connection will also be required if the scanner is not powered back on or does not return back in connection range within 3 minutes after a disconnection.
- A connection remains when the smartphone device is in suspend mode.



Note: By default, CS Auto Power off mode is enabled. This mode must be disabled for automatic reconnections.

Disconnecting

To manually disconnect, click on the SocketScan 10 icon and click **Disconnect CS**. The CRS will beep 2 times to indicate the disconnection.

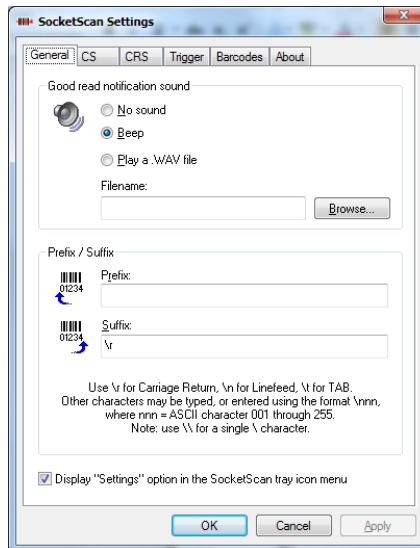
Note: If using ActivePairing, disconnect by turning off the CRS.

Turning off the CRS

To turn off the CRS, press and hold the power button on the wrist unit for at least 2 seconds, until you hear 2 beeps (high – low).

SCANNER SETTINGS

1. The SocketScan 10 Settings utility opens to the **General** tab.



2. Adjust any settings as desired:

Good read notification sound:

Select a sound to indicate successful reads of data. By default, your computer will beep. If instead you would like your computer to play a sound file (.WAV), select **Play a .WAV file** and click **Browse** to select the file.

Prefix/Suffix:

Enter any prefix and/or suffix you would like SocketScan 10 to automatically append to scanned data (128 character maximum, printable ASCII characters only). By default, SocketScan 10 will enter a carriage return after every scan.

Display "Settings" option in the SocketScan 10 tray icon menu: Checking this option displays the "Settings" option in the SocketScan 10 menu.

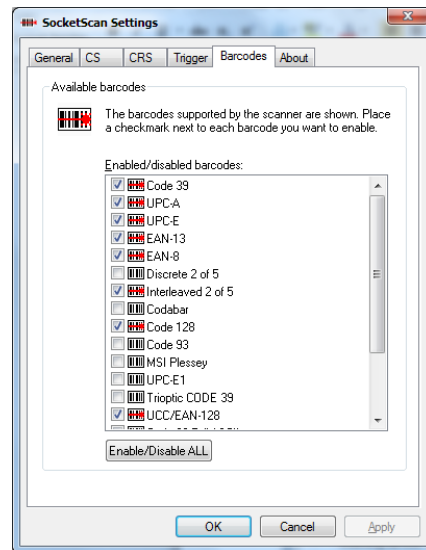
1. After changing any settings, click **OK**.

SYMBOLGY SELECTOR

The SocketScan 10 utility makes it easy to modify which symbologies you want the scanner to recognize and decode.

1. In SocketScan 10 Settings, click on the **Barcodes** tab.

*Note: The **Barcodes** tab only appears if you are connected to the CRS.*



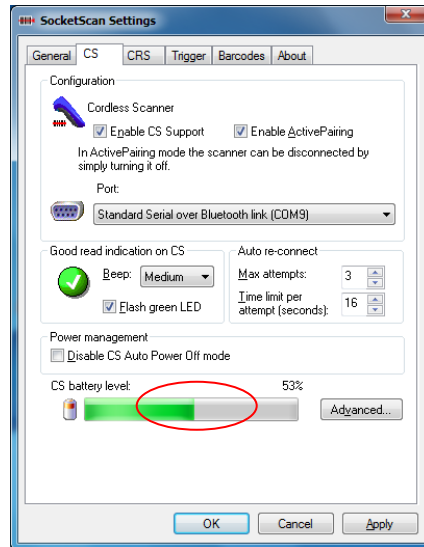
2. Check the symbologies you wish to enable. Uncheck those you wish to disable. Click **OK**.

Notes:

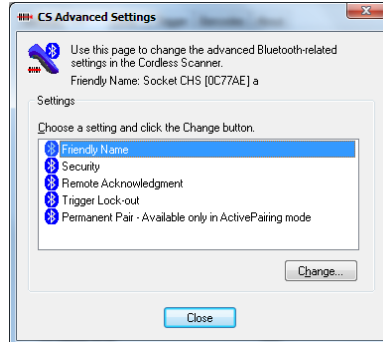
- *Socket does not recommend enabling all possible symbologies. Doing so will make the decode process slightly longer.*
- *The RSS symbology has been renamed to GS1 DataBar.*
- *To scan Vehicle Identification Numbers, select the VIN option. SocketScan10 will only output the VIN, omitting extra characters added by vehicle manufacturers.*
- *If you want to read UPC-A barcodes, disable GS1 DataBar (RSS) so that UPC-A symbols don't get mistakenly read as GS1 DataBar.*

ADVANCED SCANNER SETTINGS

1. In SocketScan 10 Settings, click on the **CS** tab.

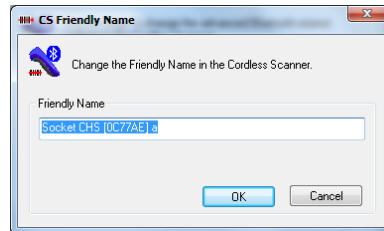


2. In the **CS** screen, click **Advanced**.
3. The Advanced Settings screen will appear, reporting the current *Bluetooth* friendly name assigned to the CRS. If desired, select a setting and click **Change**.



4. In the screen that appears, enter any changes and click **OK**.
 - **Friendly Name:** Enter a new friendly name and click **OK**. The letters 'CRS' must be included in the name.

IMPORTANT! If you want to also use the CRS with a Socket SoMo or other Windows Mobile powered device, make sure the friendly name includes the string "CRS". Otherwise, Connect!Agent software on the device will not be able to find the CRS.



Note: If you plan to use multiple CRS devices in the same area, changing the Friendly Name may help identify each scanner.

- **Security:** If enabled, the default security PIN is **0000**. A new 4 digit PIN can be entered, but you will need to enter it manually every time you connect. This PIN is used to authenticate the device to the host PC every time it connects.



If desired, click **Delete Bonding** to delete any bonding/pairing data.

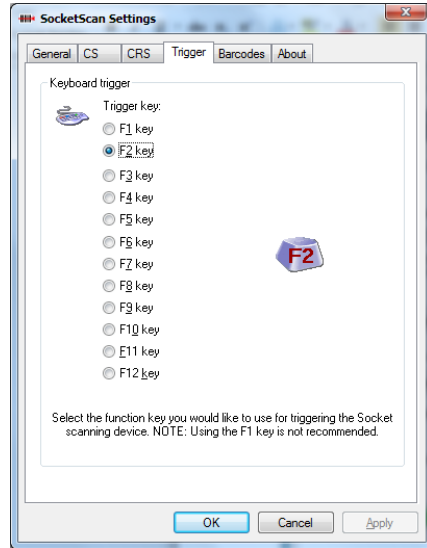
After making any changes, click **OK**.

- **Remote Acknowledgement:** Select how you would like the CRS to indicate that the host PC has successfully received scanned data.
 - **Trigger Lockout:** Select how long you would like the CRS to disable the trigger until the host PC acknowledges the previous scan.
 - **Permanent Pair:** Enable this option if you want the scanner to automatically connect to the currently connected computer whenever the scanner is powered on (Scenario 2). Click **OK**.
5. If you modified any advanced settings, you will be prompted to turn your scanner off and back on for the changes to take effect. Read the message and click **OK**. Turn the CRS off and back on again.
 6. When you return to the Advanced Settings screen, click **Close**. In the SocketScan 10 Settings screen, click **OK**.

REMOTE TRIGGER BUTTON

The SocketScan 10 utility enables you to assign one of your computer's function keys to trigger the CRS.

1. In SocketScan 10 Settings, click on the **Trigger** tab.

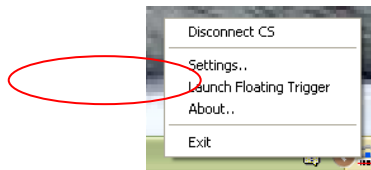


2. Select the function key you would like to use to remotely trigger the CRS. Click **OK**.

FLOATING TRIGGER

The floating trigger places a software trigger on the computer desktop that can be clicked on to trigger the scanner. It can be useful for tablet computers.

1. Connect the CRS to the computer.
2. In SocketScan 10 menu, click **Launch Floating Trigger**.



3. The floating trigger will appear on the desktop. Click on the icon to trigger the :
4. To close the trigger, in the SocketScan 10 menu, click **Remove Floating Trigge**



VERSION INFORMATION

1. In SocketScan 10 Settings, click on the **About** tab.
2. View the version information. If the computer is connected to a CRS, the CRS firmware version will appear. Click **OK**.



DUAL DEVICE SUPPORT

SocketScan versions 6.4.2 and later support the simultaneous use of two Socket data collection devices from the same PC.

SocketScan 10 can capture data from one cordless scanner at a time.

Simply connect or plug in each device as you normally would. The functionality of each device is the same. No extra configuration is required.

You can configure each device separately. In the SocketScan 10 menu, click the Settings option will have a submenu for you to choose which device to configure.

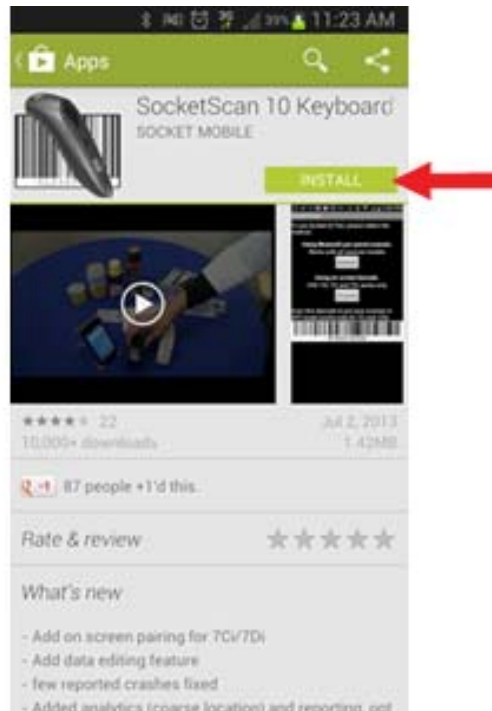
4 | SETUP FOR THE ANDROID

This chapter explains how to install and use the *Bluetooth* Cordless Ring Scanner (CRS) with a *Bluetooth* enabled device running Android 2.3 to 4.x.

Before you begin the instructions in this chapter, make sure you have installed the batteries, connect the CRS properly, and charged the scanner, as described in [Chapter 2, "Hardware Preparation."](#)

STEP 1: INSTALL SOCKETSCAN 10

1. Open Google Play Store and search for SocketScan. Follow the onscreen instructions to download and install SocketScan 10 software.



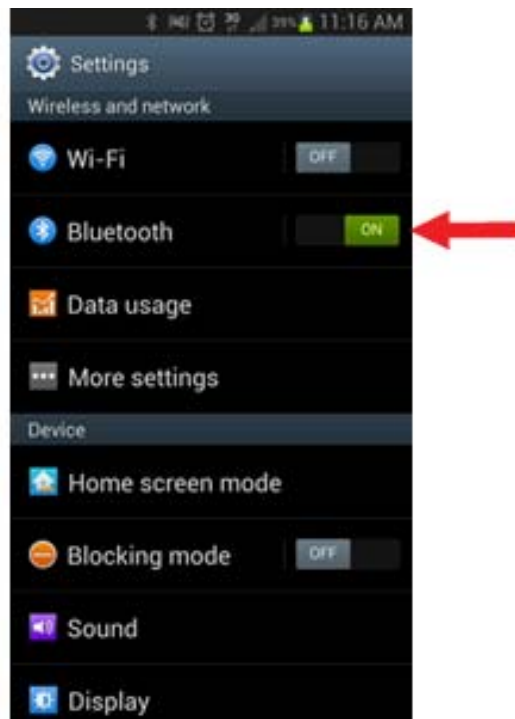
If prompted, allow the application to access Bluetooth connections and settings and/or modify USB storage / SD card contents.

STEP 2: PAIR DEVICE TO CRS USING BLUETOOTH

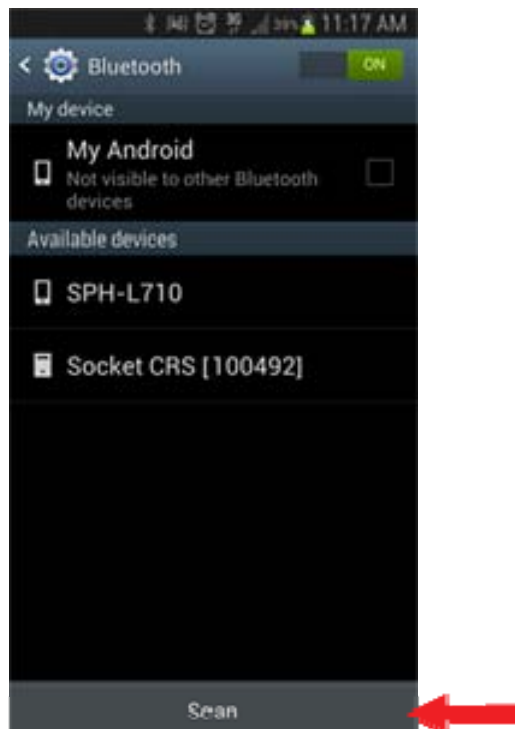
2. Power on the CRS. Press and hold the small power button until the LED turns blue and the CRS beeps twice (low-high).

The LED blinks blue once per second to show that the Bluetooth radio is on but not connected.

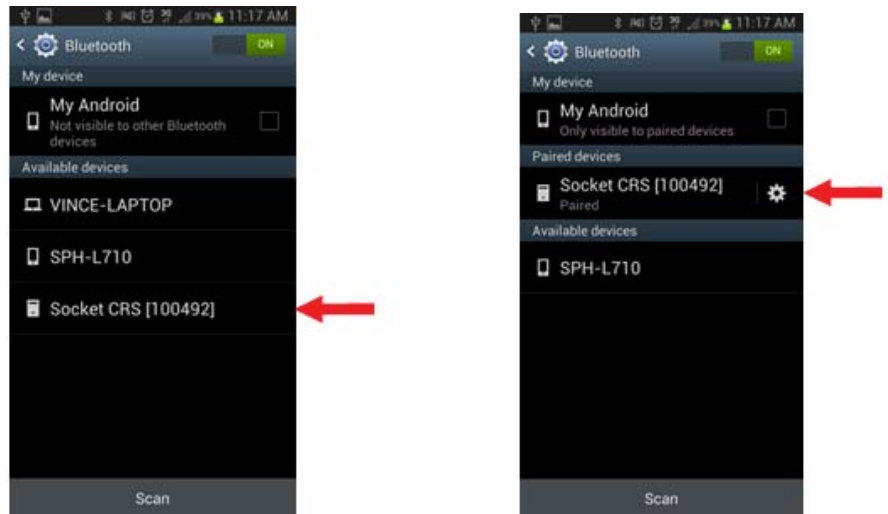
3. Click **Home key | Options | Settings | Wireless & networks | Bluetooth settings.**



4. Make sure your device has *Bluetooth* on and is **Discoverable**. Touch **Scan**.

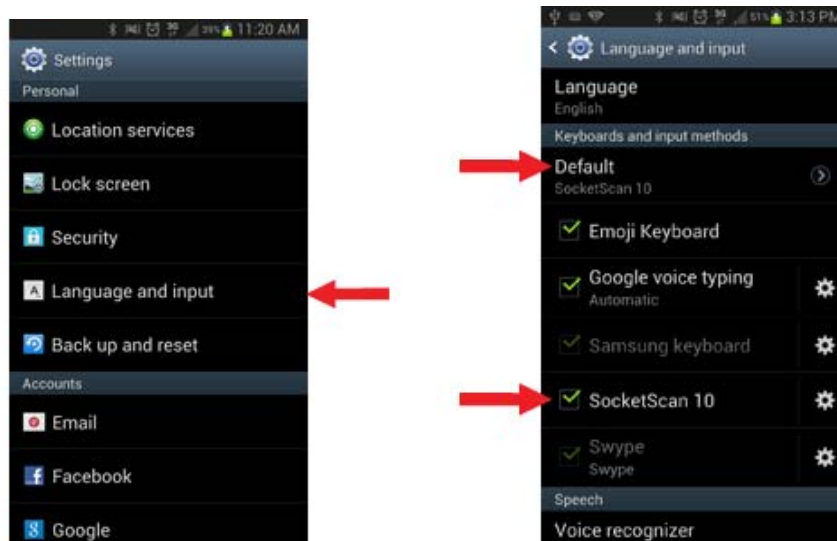


5. In the list of Available devices, select **Socket CRS**.
After pairing, it will appear under Paired devices.



STEP 3: KEYBOARDS AND INPUT METHODS

6. Click the **Home key | Options | Settings | Personal | Language and input**. Make sure **SocketScan 10** is selected and is the **Default keyboard**.

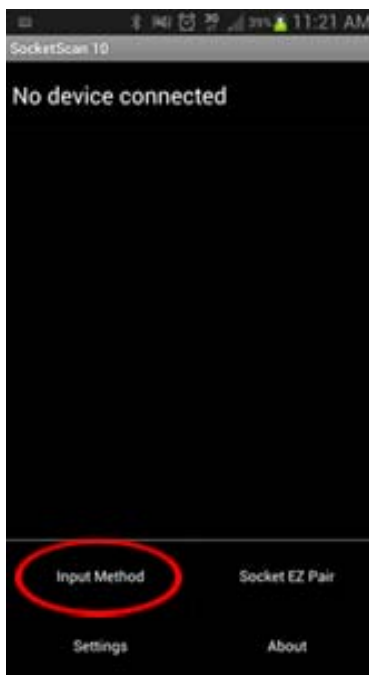


STEP 4: START SOCKETSCAN 10

7. Open **SocketScan 10**.  For some devices, the icon will appear on the Home screen. For other devices, touch **Apps** on screen to access apps list.
8. A message will tell you to enable SocketScan 10 as your input method. Touch **Back key** 



9. Touch **Options | Input Method**.

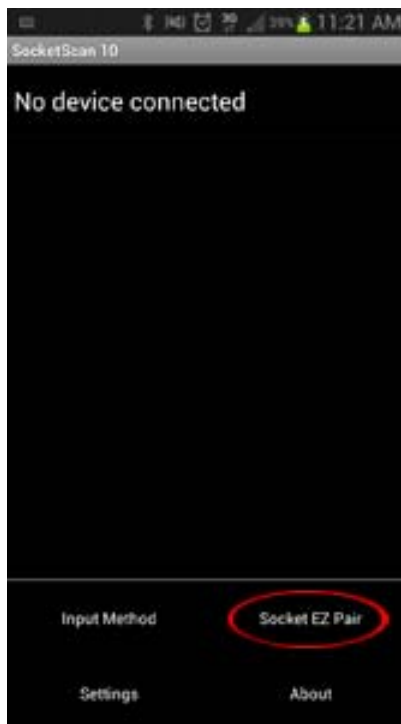


10. Make sure **SocketScan 10** is selected. Touch **Back** .

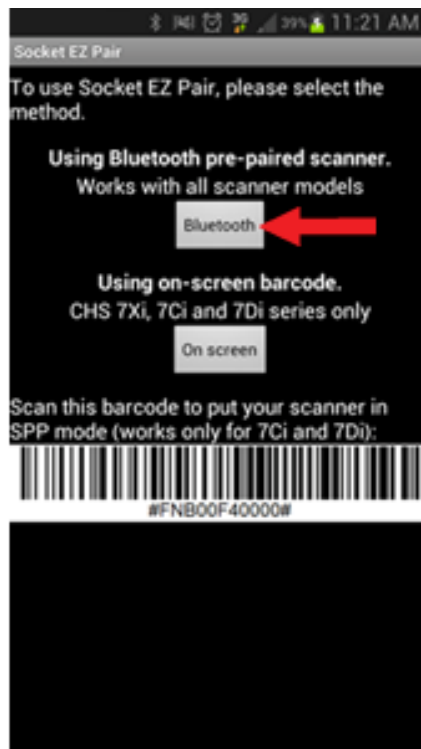


STEP 5: SOCKET EZ PAIR

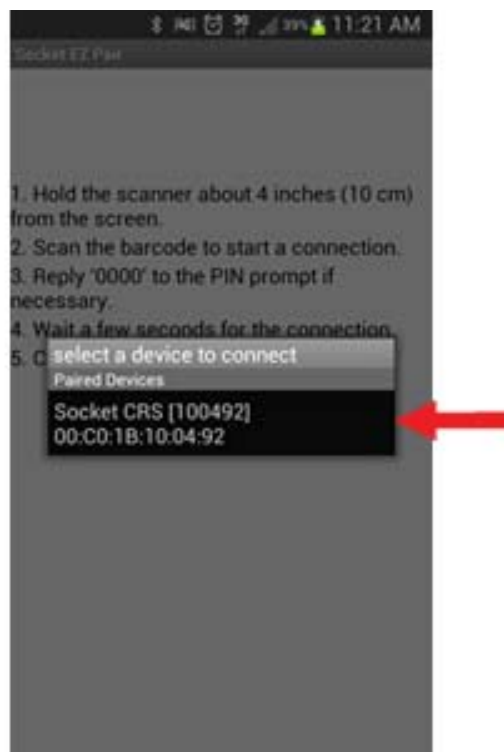
11. Touch **Options | Socket EZ Pair**.



12. Touch **Bluetooth**.



13. In the list of paired devices, touch **Socket CRS**.



The CRS will beep once when it has connected and ready to scan barcodes. The LED will also blink blue once every 3 seconds, and the icon at the top of the screen will also change.

Status Bar
Icon

 CRS not connected.

 CRS connected.

14. Touch **Back**  to close Socket EZ Pair.

STEP 6: REGISTER SOCKET SCANNER

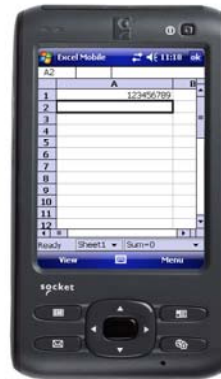
15. A Socket registration Icon  will appear at the top of the screen. Swipe the icon down to open the scanner registration software.
16. Follow the instructions to register the scanner or touch Cancel to register later.



*After you have connected, you can touch **Socket CRS** in the main screen of SocketScan 10 to view basic scanner properties.*

5 | SETUP FOR THE SoMo

This chapter explains how to install and use the Socket *Bluetooth* Cordless Ring Scanner (CRS) with any version of the Socket SoMo handheld computer.



Note: Before you begin the instructions in this chapter, please charge and install the battery, as explained in Chapter 2, "Hardware Preparation."

CONNECTION OPTIONS

For Windows-based computers, the Socket CRS offers three different connection options to fit different work environments.

Scenario	How the <i>Bluetooth</i> Connection Initiates	Pros/Cons	Compatible Hardware/
Scenario 1: Single user with one scanner per SoMo, no roaming.	SoMo initiates the connection through <i>Bluetooth</i> software.	Easiest to configure but requires user to start connection through software.	Any version of CRS
Scenario 2: Enterprise deployment with one scanner per SoMo, no roaming.	Scanner initiates the connection automatically when it is powered on. (ActivePairing with Permanent Pair)	More complex to configure but easiest connection method.	Wrist Unit Part Number 8550-00019 F or later
Scenario 3: Enterprise deployment with scanner(s) roaming between different SoMo devices.	Scanner initiates the connection by reading a special barcode. (ActivePairing)	Easy to connect but requires barcode generating software.	8550-00028 A or later

IMPORTANT! REMEMBER THE NUMBER OF THE SCENARIO YOU WANT TO SET UP THE SOFTWARE FOR!

STEP 1: INSTALL CONNECT!AGENT SOFTWARE

Note: This step is required only for SoMo devices running Windows Mobile 6 Service Pack 8 or later.

1. In the Today screen, tap **Getting Started**.
2. Select the option for installing Connect!Agent. Follow the on-screen instructions for installing the software.

STEP 2: CHECK SOFTWARE VERSIONS

Note: This step is required only if you want to set up your SoMo for ActivePairing (Scenario 2 or 3).

SOCKETSCAN 10:

Tap on the SocketScan 10 task tray icon. In the pop-up menu, tap **About**. SocketScan versions 7.4.2.0 and later support ActivePairing.

CONNECT!AGENT:

Tap **Start | Settings | System Tab | Connect!Agent**. In the Connect!Agent utility, tap **About**. Connect!Agent versions 1.3.xx and later support ActivePairing.

If you need to upgrade, you can download the latest software free from <http://www.socketmobile.com/support/downloads>

ADVANCED USERS: Refer to the README file for CAB installation instructions.

STEP 3: START SOCKETSCAN 10

Tap **Start | Programs | SocketScan 10 folder |SocketScan 10**.

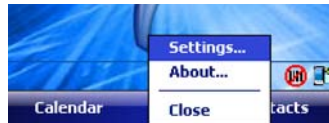


After you start SocketScan 10, an icon will appear in the task tray at the bottom of the Today screen.

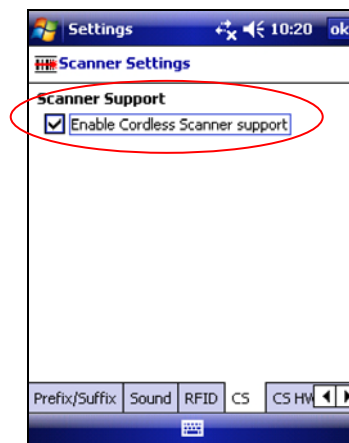
Icon	Meaning
 (red circle)	SocketScan 10 is not ready to connect to the CRS
 (blue circle)	SocketScan 10 is ready to connect to the CRS
	CRS is connected and ready to scan

STEP 4: ENABLE CORDLESS SCANNER SUPPORT

1. Go to the Today screen by tapping **Start | Today**.
2. Tap the SocketScan 10 icon  at the bottom of the screen. In the pop-up menu, tap **Settings**.



3. The Scanner Settings utility will appear. Tap on the **CS** tab at the bottom of the screen.
4. Check the box **Enable Cordless Scanner support. IMPORTANT!!!**



5. Tap **ok** in the top right corner.

Notes:

- If the Bluetooth radio is off, a message may report that ActivePairing is not activated. Tap **ok**.
- After Cordless Scanner Support is enabled, the SocketScan 10 icon will have a blue circle.

STEP 5: TURN ON THE CRS

Press and hold the small power button on the left side of the wrist unit until you hear 2 beeps (low – high).

Power button



Note: For more information on beeps and LEDs, see page 10.

After you turn on the CRS, it will have the following sequence of *Bluetooth* modes until it connects to a computer:

Time after turning on scanner	Bluetooth mode
0-5 minutes	Discoverable and connectable
5-20 minutes	Connectable
20 minutes	Scanner automatically powers off

STEP 6: PREPARE THE CONNECTION

SCENARIO 1:

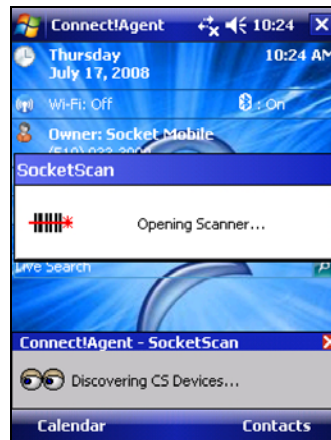
1. Tap on the SocketScan 10 icon  at the bottom of the screen. In the pop-up menu, tap **Connect CS**.



*Note: The **Connect CS** option appears only when Cordless Scanner support is enabled.*

2. If the *Bluetooth* radio of your device is turned off, Connect!Agent will ask if you want to turn it on. Tap **Yes**. Connect!Agent will automatically turn on the *Bluetooth* radio.
3. Connect!Agent will search for and connect to the CRS.
 - If this the first time the device is connecting to the CRS, Connect!Agent will search for any in range.

- If the device previously connected to a CRS, Connect!Agent will search for the default device.

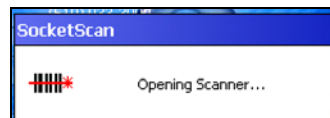


4. Tap to select your CRS and tap **ok**.



Note: To help you identify the CRS, Connect!Agent reports the Bluetooth Device Address, which is labeled on the bottom of the wrist unit. The characters in brackets are the last six characters.

5. Connect!Agent will connect to the selected *Bluetooth* CRS.



6. After connecting, the CRS will beep once, and the SocketScan 10 icon will change into a ring icon.



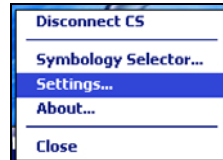
Notes:

- To connect the SoMo to the scanner in the future, tap *Connect CS* in the SocketScan 10 menu. Connect!Agent will automatically try to connect to the scanner you last connected to.
- To change which CRS is assigned as default, use the Connect!Agent utility (instructions provided at the end of this chapter).

SCENARIO 2:

After the SoMo connects to the scanner, you can set up a Permanent Pair.

1. Complete the steps described above for Scenario 1.
2. While the scanner is connected to the computer, tap on the SocketScan 10 icon. In the menu, tap Settings.



3. In the **CS HW** tab, tap **Advanced**. Check the box **Permanent Pair**. Tap **OK**. Tap **ok** to save.



Note: After you set up the Permanent Pair, future connections can be initiated by simply powering on the scanner. SocketScan 10 must be running on the SoMo.

SCENARIO 3:

1. Find out the *Bluetooth* address of your SoMo.
Tap **Start** | **Settings** | **System Info** | **Wireless Info**.
2. Use barcode software or a barcode generating website like <http://www.idautomation.com/java/linearservlet.html> or <http://www.barcoding.com/upc> to print the following barcode:

IMPORTANT! FORMAT THE BARCODE IN THE SYMBOLOGY CODE 128!

ActivePairing Barcode	Sample	Result after Scanning
Initiator Bar Code — contains the following data: #FNIxxxxxxxxxxxxx# where xxxxxxxxxxxx is the <i>Bluetooth</i> address of the computer		The scanner will change to initiator mode and automatically try to connect to the SoMo with the <i>Bluetooth</i> address embedded in the barcode

3. In the Today screen, make sure the SocketScan 10 icon in the task tray has a blue circle to indicate that it is ready for ActivePairing.
4. Assemble and put on the scanner as explained in Chapter 2.
5. Scan the Initiator Barcode.

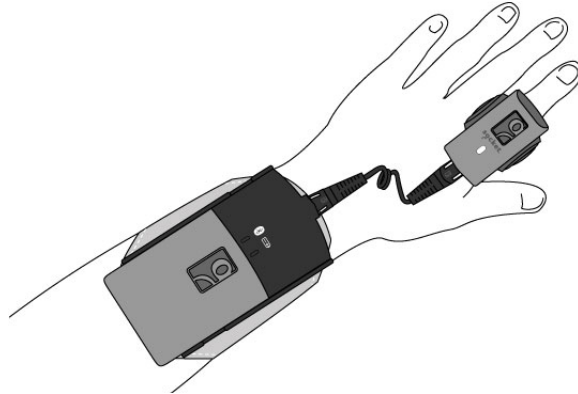
Note: The CRS will try to connect every 2 seconds for a maximum of 20 attempts.

6. After connecting, the CRS will beep once, and the *Bluetooth* Status LED of the CRS will blink once every 3 seconds. The SocketScan 10 icon will also change to a ring icon.

Note: After disconnecting from a SoMo device (by turning off the scanner), you can easily connect to a different SoMo by scanning the Initiator Barcode customized for that SoMo. SocketScan 10 must be running on the SoMo.

STEP 7: ASSEMBLE AND PUT ON THE CRS

If you have not done so already, assemble and put on the scanner, as explained in Chapter 2.



STEP 8: OPEN YOUR APPLICATION

1. Start the application that you want to enter scanned data into. Make sure a document or spreadsheet is open.
2. Place the cursor where you want data to enter.

STEP 9: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and aim your finger at the barcode. The red laser beam should cover the entire width of the barcode. For example, try scanning the barcode below:



2. After a successful scan, the CRS will beep, the LED will flash green, laser will turn off, and data will appear in your application. By default, the cursor automatically advances to the next cell or line, ready for the next scan.

Notes:

- See Appendix B for scanning tips.
- If no data is read in a few seconds, the laser will turn off, and you must try again.

SocketScan 10 Auto-Reconnect

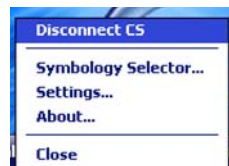
The scanner will disconnect if it is powered off or moves out of the connection range. If the scanner is powered back on or returns back in range within 3 minutes after disconnection, SocketScan 10 will automatically attempt re-connection.



- Failure to reconnect will cause the scanner to end auto-reconnect mode and disconnect. You will then be required to make a connection manually through SocketScan 10 by tapping on the SocketScan 10 icon and tapping **Connect CS**.
- A manual connection will also be required if the scanner is not powered back on or does not return back in connection range within 3 minutes after a disconnection.
- A connection remains when the smartphone device is in suspend mode.

DISCONNECTING

To manually disconnect, tap on the SocketScan 10 icon at the bottom of the Today screen and tap **Disconnect**. The CRS will beep twice (same tone) to indicate that the connection has ended.



Note:

- To turn off the Bluetooth radio, press the right side button to access the wireless manager.
- If using ActivePairing, disconnect by turning off the CRS.

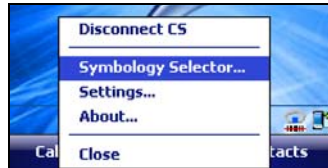
Turning off the CRS

To turn off the CRS, press and hold the power button on the wrist unit for at least 2 seconds, until you hear 2 beeps (high – low).

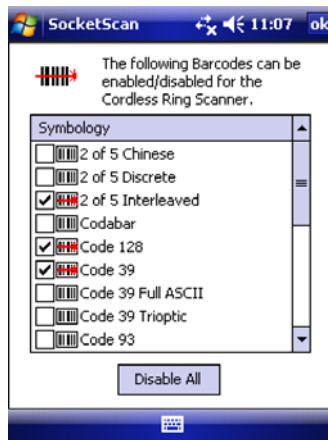
SYMBOLGY SELECTOR

The applet makes it easy to select symbologies for the CRS to recognize. By default, the CRS recognizes several of the most common symbologies.

1. In the Today screen, tap on the SocketScan 10 icon. 
2. In the pop-up menu, tap **Symbology Selector...**



3. Check the symbologies you wish to enable. Uncheck those you wish to disable. For convenience, you can tap **Disable All** to disable all and select the ones you want. Tap **ok**.

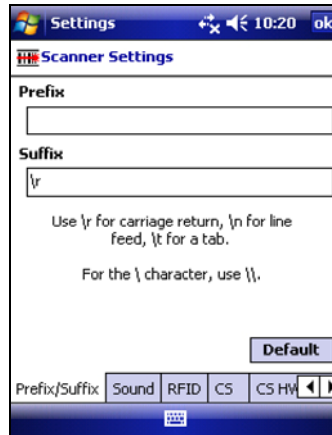


Note:

- *Socket does not recommend enabling all symbologies. Doing so will slightly lengthen the decode process.*
- *To scan Vehicle Identification Number barcodes, select **VIN**. SocketScan 10 will disregard extra characters added by vehicle manufacturers and only output the VIN.*

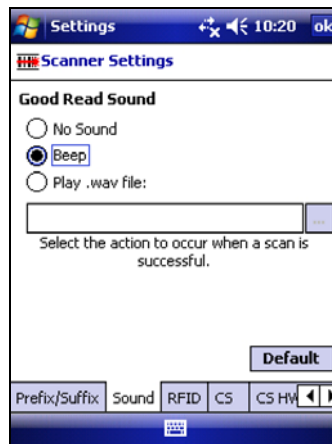
SCANNER SETTINGS

1. Tap on the SocketScan 10 icon. In the menu, tap **Settings**.
2. The Prefix/Suffix screen will appear. If desired, enter characters to append to each scan (128 character maximum, only ASCII printable characters).



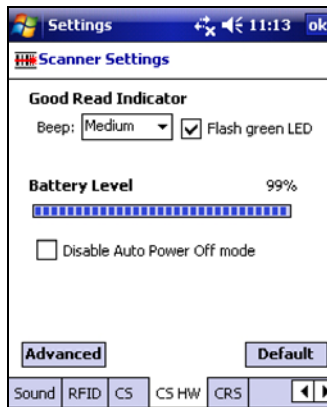
Note: The default suffix is a carriage return. Besides characters listed on the screen, other characters can be typed or entered using the format \nnn, where nnn = ASCII character 001 - 255.

3. Tap on the **Sound** tab. Select a sound to indicate a good read. If you select **Play .wav file**, tap on the ... button to search for the file (it must be located in the **My Documents** folder).



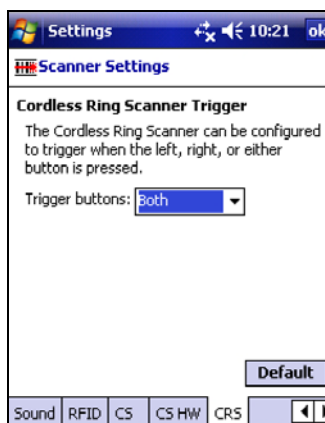
4. Tap on the **CS HW** tab. Enter the following settings:
 - **Good Read Indicator:** Select how you want the *Bluetooth* CRS to indicate that it has successfully read data.
 - **Battery Level:** When the CRS is connected, a progress bar displays this advanced feature.
 - **Disable Auto Power Off mode:**

CAUTION: Selecting this option will disable the Auto Power Off mode and can result in complete discharge of the CRS battery. Use with caution.



- **Advanced:** When the scanner is connected, the **Advanced** button appears. If desired, tap to configure advanced settings (*configurable only with the CRS v3*).
 - **Good Read Indicator from the host:** Select how you would like the CRS to indicate that the mobile device has received the scanned barcode data.
 - **Trigger lock out:** Select how long you would like the CRS to disable the trigger until data from the previously scanned barcode reaches the mobile device.
 - **Permanent Pair:** Please refer to the ActivePairing section on the next page for instructions.
 - Tap **OK**.

5. Tap on the **CRS** tab. Select the CRS button(s) you want to use to trigger the scanner. Tap **ok**.



SCAN DEMO

Scan Demo makes it easy to determine the symbology and other properties of barcodes supported by the CRS. This is useful if you encounter a barcode that the scanner will not decode by default, so you know which symbology to enable in Symbology Selector.

1. Tap **Start | Programs | SocketScan 10 folder | Scan Demo**.



ScanDemo

*Note: Accessing Scan Demo disconnects the Bluetooth link. If you have not configured the CRS to automatically connect, tap on **CS | Connect CS** at the bottom of the screen.*

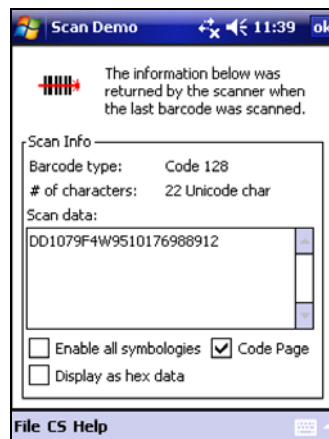
2. The Scan Demo screen will appear. If desired, use the check boxes to modify the test.

Enable all symbologies: By default, this option is checked. Different symbologies can sometimes interpret the same barcode differently, so you may want to uncheck this option.

Display as hex data: Check this box to view scanned data in hexadecimal format. Otherwise, data will appear as ASCII.

Code Page: Check this box to select the code page option.

3. Scan the barcode. Scan Demo will report the properties of the barcode.



CONNECT!AGENT UTILITY

This utility enables you to view and change the default CRS that Connect!Agent attempts to connect to.



1. Tap **Start | Settings | System tab | Connect!Agent**.
2. The Connect!Agent utility lists the CRS that it has saved as a favorite device. Connect!Agent automatically attempts to connect to this device when SocketScan 10 or Scan Demo is started.



Note: SocketScan 10 and Scan Demo can have the same favorite CRS.

3. To remove a device from the partnership list, select the device and tap **Delete**. In the confirmation screen, tap **Yes**.

DUAL DEVICE SUPPORT

SocketScan 7.2.4 and later supports the simultaneous use of a *Bluetooth* scanner and a Socket plug-in magnetic stripe or RFID reader. Simply connect or plug in each device as normal. Each device will function normally. No extra configuration is required. Each device can be configured separately.



6 | SETUP FOR NON-SOMO PDAs

This chapter explains how to install and use the *Bluetooth* Cordless Ring Scanner (CRS) with a non-SoMo device running Windows Mobile.

Note: Before you begin the instructions in this chapter, please charge and install the battery, as explained in Chapter 2, "Hardware Preparation."

CONNECTION OPTIONS

For Windows-based computers, the CRS offers three different connection options to fit different work environments.

Scenario	How <i>Bluetooth</i> Connection Initiates	Pros/Cons	Compatible Hardware/
Scenario 1: Single user with one scanner per PDA, no roaming.	Computer initiates the connection through <i>Bluetooth</i> software.	Easiest to configure but requires user to start connection through software.	Any version of CRS
Scenario 2: Enterprise deployment with one scanner per PDA, no roaming.	Scanner initiates the connection automatically when it is powered on. (ActivePairing with Permanent Pair)	More complex to configure but easiest connection method.	Wrist Unit Revision Letter 8550-00019 F or later
Scenario 3: Enterprise deployment with scanner(s) roaming between different PDAs.	Scanner initiates the connection by reading a special barcode. (ActivePairing)	Easy to connect but requires barcode generating software.	8550-00028 A or later

IMPORTANT! REMEMBER THE NUMBER OF THE SCENARIO YOU WANT TO SET UP THE SOFTWARE FOR!

STEP 1: DISABLE BLUETOOTH SERIAL PORT PROFILE

Note: This step is required only for ActivePairing (Scenario 2 or 3) with a PDA with the Broadcom or Widcomm Bluetooth stack.

IDENTIFYING YOUR BLUETOOTH STACK:

Check the About screen of your *Bluetooth* software to determine if it was developed by Broadcom or WIDCOMM. The table below lists some devices that have the Broadcom or WIDCOMM *Bluetooth* stack:

Device	Operating System
Dell Axim	Windows Mobile 2003, 2003SE
Fujitsu LOOX	Windows Mobile 2003, 2003SE
HP iPAQ	Windows Mobile 2003, 2003SE, 5.0, 6

DISABLING THE SERIAL PORT PROFILE:

Open your *Bluetooth* software. Tap on the **Services** tab. Next to the **Serial Port** option, uncheck the **Enable Service** option.

STEP 2: UNINSTALL OTHER SCANNING SOFTWARE

Remove any barcode scanning software already installed in your device, including previous versions of SocketScan.

OPTION 1: Uninstall Directly from the Pocket PC

1. Make sure the barcode scanning software is not running, and no Socket data collection products are connected to the PDA.
2. Tap **Start | Settings**. Tap on the **System** tab or **Control Panel**.
3. Tap **Remove Programs**. Use the utility to remove the software.

OPTION 2: Uninstall via ActiveSync

1. Make sure the barcode scanning software is not running, no Socket data collection products are connected to the PDA.
2. Use ActiveSync and a serial/USB cable or cradle to make an active connection between your device and a host PC.
3. On the host PC, open Microsoft ActiveSync.
4. Click **Tools | Add/Remove Programs**. Use the utility to remove the software.

STEP 3 INSTALL SOCKETSCAN 10 AND CONNECT!AGENT

IMPORTANT! IF YOU WANT TO USE ACTIVEPAIRING (SCENARIO 2 OR 3), YOU MUST INSTALL THESE SOFTWARE VERSIONS:

- **SOCKETSCAN 7.4.2.0 OR LATER**
- **CONNECT!AGENT 1.3.XX OR LATER**

Download the latest software free from
<http://www.socketmobile.com/support/downloads/data-collection/series7/ss10/>

ADVANCED USERS: Refer to the README file for CAB installation instructions.

1. Make an active connection between your device and a host PC. Use a USB/serial connection cable or cradle and synchronization software (ActiveSync or Windows Mobile Device Center).



Note: Synchronization software is free from the Microsoft website.

2. Insert the installation CD into your host PC. Use **My Computer** or **Windows Explorer** to access your CD-ROM drive. In the CD, click on SETUP.EXE.

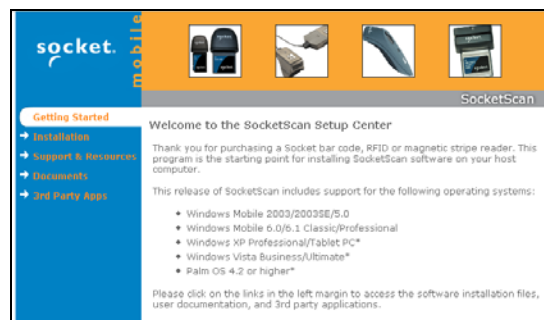


CD Drive



Setup
Setup
Socket Communications, Inc.

3. The SocketScan Setup Center will appear in your web browser. Read the first page and click **Installation** in the left margin.



4. In the Windows CE section of the SocketScan Installation page, click **Install** In the first paragraph.
5. Your web browser will present a series of dialogs.

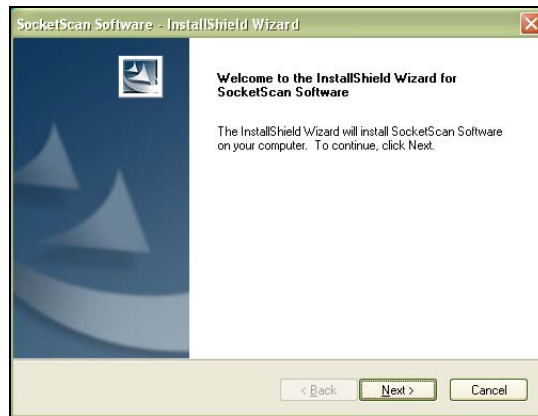
Internet Explorer:

- In the File Download –Security Warning dialog, click **Run**.
- In the second warning dialog, click **Run**.
- Internet Explorer will download the file.

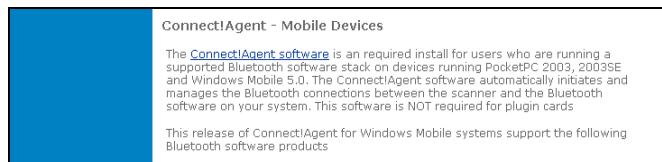
Firefox:

- In the file opening dialog, click **Save File**.
- Firefox will download the file.
- In the Downloads list, next to SocketScanCE.exe, click **Open**.
- In the warning dialog, click **OK** to continue.

6. The installation wizard will automatically begin. Follow the wizard to install the software.



7. When software installation is complete, remove the device from the cradle. Soft reset the device by either tapping **ok** when prompted or pressing the reset button.
8. Install Connect!Agent. Return to the SocketScan Setup Center Installation page. Scroll down to the Connect!Agent – Mobile Devices section and click on the **Connect!Agent software** link there.



IMPORTANT! You must install both SocketScan 10 and Connect!Agent software!

STEP 4 START SOCKETSCAN 10



SocketScan 10



SocketScan

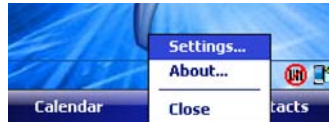
Tap **Start | Programs | SocketScan 10 folder | SocketScan 10**.

After you start SocketScan 10, an icon will appear in the task tray at the bottom of the Today screen.

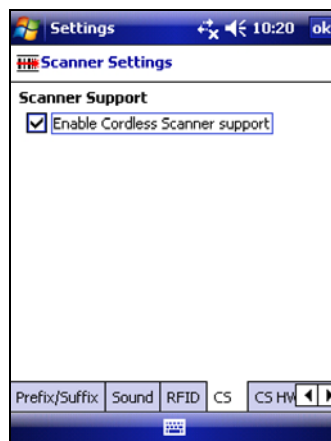
Icon	Meaning
 (red circle)	SocketScan 10 is not ready to connect to the CRS
 (blue circle)	SocketScan 10 is ready to connect to the CRS
	CRS is connected and ready to scan

STEP 5 ENABLE CORDLESS SCANNER SUPPORT

1. Go to the Today screen by tapping **Start | Today**.
2. Tap the SocketScan 10 icon  at the bottom of the screen. In the pop-up menu, tap **Settings**.



3. The Scanner Settings utility will appear. Tap on the **CS** tab at the bottom.
4. Check the box **Enable Cordless Scanner support**. **IMPORTANT!!!**



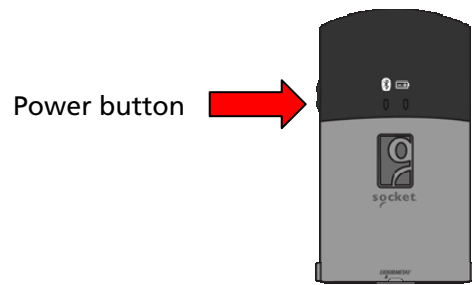
5. Tap **ok** in the top right corner.

*Note: If the Bluetooth radio is off, a message may report that ActivePairing is not activated. Tap **ok**.*

Note: After Cordless Scanner Support is enabled, the SocketScan 10 icon will have a blue circle.

STEP 6 TURN ON THE CRS

Press and hold the small power button on the left side of the wrist unit until you hear 2 beeps (low – high).



Note: For more information on beeps and LEDs, see page 10.

After you turn on the CRS, it will have the following sequence of *Bluetooth* modes until it connects to a computer:

Time after turning on scanner	Bluetooth mode
0-5 minutes	Discoverable and connectable
5-20 minutes	Connectable
20 minutes	Scanner automatically powers off

STEP 7 PREPARE THE CONNECTION

SCENARIO 1:

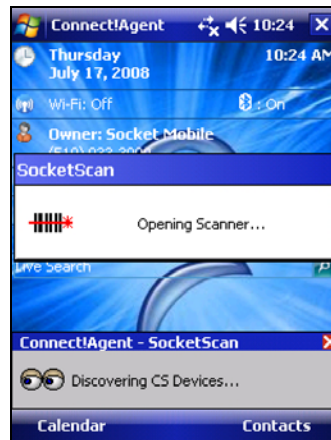
1. Tap on the SocketScan 10 icon  at the bottom of the screen. In the pop-up menu, tap **Connect CS**.



*Note: The **Connect CS** option appears only when Cordless Scanner support is enabled.*

2. If the *Bluetooth* radio of your device is turned off, Connect!Agent will ask if you want to turn it on. Tap **Yes**. Connect!Agent will automatically turn on the *Bluetooth* radio.
3. Connect!Agent will search for and connect to the CRS.
 - If this the first time the device is connecting to the CRS, Connect!Agent will search for any in range.

- If the device previously connected to a CRS, Connect!Agent will search for the default device.

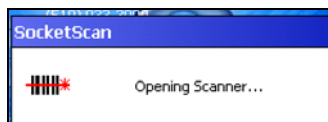


4. Tap to select your CRS and tap **ok**. The scanner will appear as Socket CRS [xxxxxx], where the characters in brackets are the last 6 characters of the Bluetooth Device Address.



Note: To help you identify the CRS, Connect!Agent reports the Bluetooth Device Address, which is labeled on the bottom of the wrist unit.

5. Connect!Agent will connect to the selected CRS.



6. After connecting, the CRS will beep once, and the SocketScan 10 icon will change into a ring icon.



Note: To connect the computer to the scanner in the future, tap Connect CS in the SocketScan 10 menu. Connect!Agent will automatically try to connect to the scanner you last connected to.

Note: To change which CRS is assigned as default, use the Connect!Agent utility (instructions provided at the end of this chapter).

SCENARIO 2:

After the PC connects to the scanner, you can set up a Permanent Pair.

1. Complete the steps described above for Scenario 1.
2. While the scanner is connected to the computer, tap on the SocketScan 10 icon. In the menu, tap Settings.
3. In the **CS HW** tab, tap **Advanced**. Check the box **Permanent Pair**. Tap **OK**. Tap **ok** to save.



Note: After you set up the Permanent Pair, future connections can be initiated by simply powering on the scanner. SocketScan 10 must be running on the PDA, and Connect!Agent must be installed.

SCENARIO 3:

1. Find out the *Bluetooth* address of your PDA.
2. Use barcode software or a barcode generating website like <http://www.idautomation.com/java/linearservlet.html> or <http://www.barcoding.com/upc> to print the following barcode:

IMPORTANT! FORMAT THE BARCODE IN THE SYMBOLOGY CODE 128!

ActivePairing Barcode	Sample	Result after Scanning
Initiator Bar Code — contains the following data: #FNIxxxxxxxxxxxx# where xxxxxxxxxxxx is the <i>Bluetooth</i> address of the computer	 #FNIaabbccddeeff#	The CRS will change to initiator mode and automatically try to connect to the PDA with the <i>Bluetooth</i> address embedded in the barcode

3. In the Today screen, make sure the SocketScan 10 icon in the task tray has a blue circle to indicate that it is ready for ActivePairing. 
4. Assemble and put on the scanner as explained in Chapter 2.
5. Scan the Initiator Barcode.

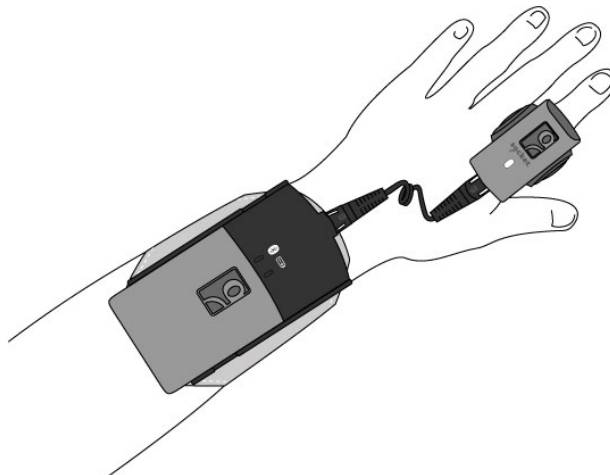
Note: The CRS will try to connect every 2 seconds for a maximum of 20 attempts.

6. After connecting, the CRS will beep once, and the *Bluetooth* Status LED of the CRS will blink once every 3 seconds. The SocketScan 10 icon will also change to a ring icon.

Note: After disconnecting from a PDA (by turning of the scanner), you can easily connect to a different PDA by scanning the Initiator Barcode customized for that PDA. SocketScan 10 must be running on the PDA, and Connect!Agent must be installed.

STEP 8 ASSEMBLE AND PUT ON THE CRS

If you have not done so already, assemble and put on the scanner, as explained in Chapter 2.



STEP 9 OPEN YOUR APPLICATION

1. Start the application that you want to enter scanned data into.
2. Place the cursor where you want data to enter.

STEP 10: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and aim your finger at the barcode. The red laser beam should cover the entire width of the barcode. For example, try scanning the barcode below:



2. After a successful scan, the CRS will beep, the LED will flash green, laser will turn off, and data will appear in your application. By default, the cursor automatically advances to the next cell or line, ready for the next scan.

Notes:

- See Appendix B for scanning tips.
- If no data is read in a few seconds, the laser will turn off, and you must try again.

SocketScan 10 Auto-Reconnect

The scanner will disconnect if it is powered off or moves out of the connection range. If the scanner is powered back on or returns back in range

within 3 minutes after disconnection, SocketScan 10 will automatically attempt re-connection.



- Failure to reconnect will cause the scanner to end auto-reconnect mode and disconnect. You will then be required to make a connection manually through SocketScan 10 by tapping on the SocketScan 10 icon and tapping **Connect CS**.
- A manual connection will also be required if the scanner is not powered back on or does not return back in connection range within 3 minutes after a disconnection.
- A connection remains when the smartphone device is in suspend mode.

DISCONNECTING

To manually disconnect, tap on the SocketScan 10 icon at the bottom of the Today screen and tap **Disconnect**. The CRS will beep twice (same tone) to indicate that the connection has ended.

Note: Connect!Agent will also turn off the Bluetooth radio of some PDA, depending on their Bluetooth stack.

Note: If using ActivePairing, disconnect by turning off the CRS.

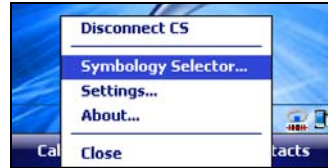
Turning off the CRS

To turn off the CRS, press and hold the power button on the wrist unit for at least 2 seconds, until you hear 2 beeps (high – low).

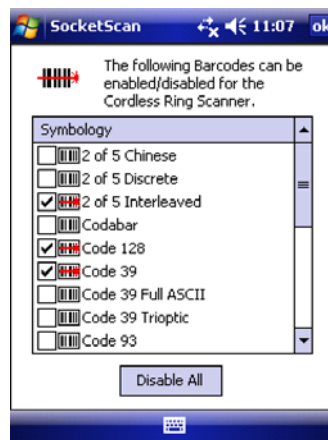
SYMBOLGY SELECTOR

The applet makes it easy to select symbologies for the CRS to recognize. By default, the CRS recognizes several of the most common symbologies.

1. Tap on the SocketScan 10 icon. In the pop-up menu, tap **Symbology Selector...**



2. Check the symbologies you wish to enable. Uncheck those you wish to disable. For convenience, you can tap **Disable All** to disable all and select the ones you want. Tap **ok**.

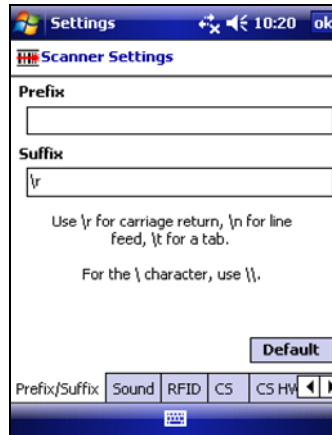


Note: Socket does not recommend enabling all symbologies. Doing so will slightly lengthen the decode process.

*Note: To scan Vehicle Identification Number barcodes, select **VIN**. SocketScan 10 will disregard extra characters added by vehicle manufacturers and only output the VIN.*

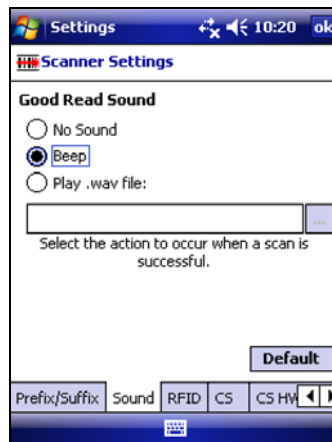
SCANNER SETTINGS

1. Tap on the SocketScan 10 icon. In the menu, tap **Settings**.
2. The Prefix/Suffix screen will appear. If desired, enter characters to append to each scan (128 character maximum, only ASCII printable characters).

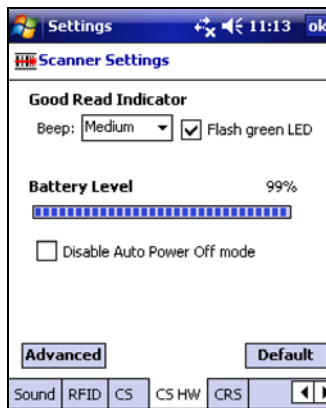


Note: The default suffix is a carriage return. Besides characters listed on the screen, other characters can be typed or entered using the format \nnn, where nnn = ASCII character 001 - 255.

3. Tap on the **Sound** tab. Select a sound to indicate a good read. If you select **Play .wav file**, tap on the ... button to search for the file (it must be located in the **My Documents** folder).



4. Tap on the **CS HW** tab. Enter the following settings:

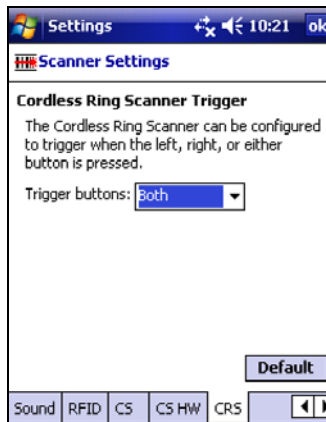


- **Good Read Indicator:** Select how you want the CRS to indicate that it has successfully read data.
- **Battery Level:** When the CRS is connected, a progress bar displays this advanced feature.
- **Disable Auto Power Off mode:**

CAUTION: Selecting this option will disable the Auto Power Off mode and can result in complete discharge of the CRS battery. Use with caution.

*Note: When the CRS is connected, the **Advanced** button appears. Permanent Pair is the only Advanced option for the CRS.*

5. Tap on the **CRS** tab. Select the CRS button(s) you want to use to trigger the scanner. Tap **ok**.



SCAN DEMO

Scan Demo makes it easy to determine the symbology and other properties of barcodes supported by the *Bluetooth* CRS. This is useful if you encounter a barcode that the scanner will not decode by default, so you know which symbology to enable in Symbology Selector.

1. Tap **Start | Programs | SocketScan 10 folder | Scan Demo**.



ScanDemo

*Note: Accessing Scan Demo disconnects the Bluetooth link. If you have not configured the CRS to automatically connect, tap on **CS | Connect CS** at the bottom of the screen.*

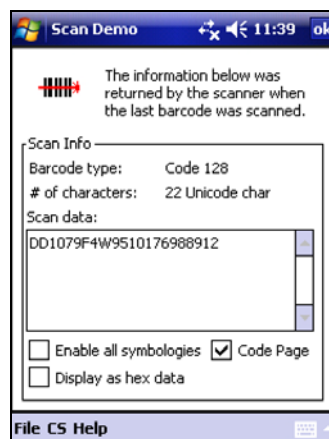
2. The Scan Demo screen will appear. If desired, use the check boxes to modify the test.

Enable all symbologies: By default, this option is checked. Different symbologies can sometimes interpret the same barcode differently, so you may want to uncheck this option.

Display as hex data: Check this box to view scanned data in hexadecimal format. Otherwise, data will appear as ASCII.

Code Page: Check this box to select the code page option.

3. Scan the barcode. Scan Demo will report the properties of the barcode.



CONNECT!AGENT UTILITY

This utility enables you to view and change the default CRS that Connect!Agent attempts to connect to.



1. Tap **Start | Settings | System tab | Connect!Agent**.
2. The Connect!Agent utility lists the CRS that it has saved as a favorite device. This is a specific device that Connect!Agent automatically attempts to connect to when SocketScan 10 or Scan Demo is started.



Note: SocketScan 10 and Scan Demo can have the same favorite CRS.

3. To remove a device from the partnership list, select the device and tap **Delete**. In the confirmation screen, tap **Yes**.

DUAL DEVICE SUPPORT

SocketScan 7.2.4 and later supports the simultaneous use of a cordless scanner and Socket plug-in magnetic stripe or RFID reader. Simply connect or plug in each device as normal. Each device will function normally. No extra configuration is required. Each device can be configured separately.



7 | SETUP FOR RIM BLACKBERRY

This chapter explains how to install and use the Socket *Bluetooth* Cordless Ring Scanner (CRS) with a RIM BlackBerry® Storm™, Bold™, Curve™ or Pearl™ Smartphone.



Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Hardware Setup."

Setup Summary

- STEP 1: Install SocketScan 10 software.
- STEP 2: Turn on the CRS.
- STEP 3: Pair smartphone with CRS.
- STEP 4: Start SocketScan 10
- STEP 5: Connect smartphone to CRS.
- STEP 6: Open your application.
- STEP 7: Scan data into your application.

Application Features

- Symbology Selector
- Scanner settings
- Device bonding

Note: The instructions in this chapter are based on a BlackBerry Curve 8320 smartphone. Other BlackBerry smartphones may vary.

STEP 1: INSTALL SOCKETSCAN 10 SOFTWARE

This User's Guide covers two methods for installing SocketScan 10 software: downloading to the smartphone and synchronizing with a desktop PC.

Downloading to the Smartphone

1. Make sure your smartphone is connected to the Internet.
2. Open the Browser and go to: <http://www.socketmobile.com/blackberry>
3. The SocketScan 10 for BlackBerry installation screen will appear. Read the information in the screen. If you accept the license agreement, click **I Accept**.
4. The download screen will appear. Click **Download**.
5. The smartphone will download and install SocketScan 10.
6. After installation, a dialog will report that installation was successful. Click **OK**.

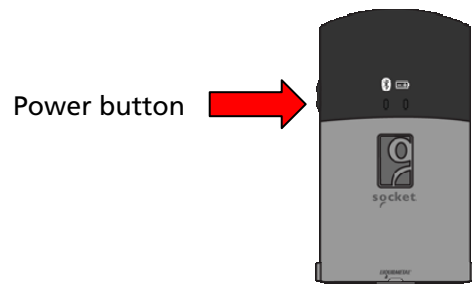
Synchronizing with a Desktop PC

Refer to your BlackBerry Desktop Manager manual for complete instructions.

1. Install the SocketScan 10 for BlackBerry Desktop Installer (SocketScanBlackBerry_Installer.exe) on your PC.
2. Use a USB connection cable/cradle to connect the smartphone to the PC.
3. Launch the BlackBerry Desktop Manager.
Click **Start | Programs | BlackBerry | Desktop Manager**.
4. If prompted, enter your password. Click **OK**.
5. Click **Next**.
6. If prompted, enter your password. Click **Next**.
7. Click **Add/Remove Application**.
8. Select the checkbox for **SocketScan 10** and click **Next**.
9. Click **Finish**.
10. After the software finishes loading, click **Close**.

STEP 2: TURN ON THE CRS

Press and hold the small power button on the left side of the wrist unit until you hear 2 beeps (low – high).



Note: For more information on beeps and LEDs, see page 10.

After you turn on the CRS, it will have the following sequence of *Bluetooth* modes until it connects to a computer:

Time after turning on scanner	<i>Bluetooth</i> mode
0-5 minutes	Discoverable and connectable
5-20 minutes	Connectable
20 minutes	Scanner automatically powers off

STEP 3: PAIR SMARTPHONE WITH CRS

BlackBerry Storm smartphone:

1. In the Home Screen, click **Options**. Click **Bluetooth**.
2. In the *Bluetooth* options menu, click **Add Device**.
3. When asked if you want to search for a device or listen for a device to find you, click **Search**.
4. Your smartphone will begin searching for *Bluetooth* enabled devices in range.
5. In the list of found devices, click **Socket CRS [xxxxxx]**.



The characters in brackets are the last 6 characters of the Bluetooth Device Address, which is printed on a label under the wrist unit.

6. If prompted for a numeric passkey, enter **0000**.

Note: If the passkey 0000 does not work, you may be using an older scanner. Try the passkey 1234.

7. After pairing is complete, the CRS will appear in the list of paired devices.

BlackBerry Curve/Bold/Pearl smartphone:

1. In the Home Screen, click **Set Up Bluetooth**.

If your device does not have the Set Up *Bluetooth* option, click **Settings** then **Bluetooth**.

2. A dialog will ask you to make sure the *Bluetooth* device is in pairing mode (connectable mode). Click **OK**.
3. Your smartphone will begin searching for *Bluetooth* enabled devices in range.
4. In the list of found devices, click **Socket CRS [xxxxxx]**.



The characters in brackets are the last 6 characters of the Bluetooth Device Address, which is printed on a label under the wrist unit.

5. If prompted for a numeric passkey, enter **0000**.

Note: If the passkey 0000 does not work, you may be using an older scanner. Try the passkey 1234.

6. A dialog will report that pairing is complete.

STEP 4: START SOCKETSCAN 10

1. In the Home Screen, click **SocketScan 10**.



For some smartphones, the SocketScan 10 icon appears in the Downloads folder. You may want to move it to the Home Screen or into the Applications folder.

2. The SocketScan 10 main screen will appear, with a picture indicating that the smartphone is not connected to the CRS.

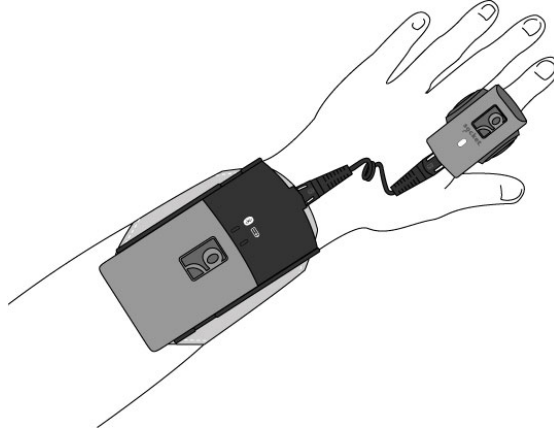
STEP 5: CONNECT SMARTPHONE TO CRS

1. Make sure the CRS is still turned on.
2. In the SocketScan 10 menu, click **Connect CS**.
3. A dialog will report that SocketScan 10 is requesting changes to its application control permissions. Click **View**.
4. Accept the default permissions. Click **Allow**. In the Options menu, click **Save**.
5. In the SocketScan 10 main screen, open the SocketScan 10 menu and click **Connect CS**.
6. The smartphone will begin connecting to the CRS.

7. After the smartphone connects to the CRS, the picture on the main screen of SocketScan 10 will change to indicate the connection. A progress bar will also display the battery level of the *Bluetooth* CRS.

STEP 6 ASSEMBLE AND PUT ON THE CRS

If you have not done so already, assemble and put on the scanner, as explained in Chapter 2.



STEP 6: OPEN YOUR APPLICATION

1. Start the application that you want to receive the data (e.g., MemoPad). Make sure a document or spreadsheet is open.



TIP

*To quickly change applications, in the SocketScan 10 menu, click **Switch Applications**.*

2. Place the cursor where you want data from the next scan to go.

STEP 7: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and aim your finger at the barcode. The red laser beam should cover the entire width of the barcode. For example, try scanning the barcode below:



2. After a successful scan, the CRS will beep, the LED will flash green, laser will turn off, and data will appear in your application. By default, the cursor automatically advances to the next cell or line, ready for the next scan.

Notes:

- See Appendix B for scanning tips.
- If no data is read in a few seconds, the laser will turn off, and you must try again.

SocketScan 10 Auto-Reconnect

The scanner will disconnect if it is powered off or moves out of the connection range. If the scanner is powered back on or returns back in range within 3 minutes after disconnection, SocketScan 10 will automatically attempt re-connection.

- Failure to reconnect will cause the scanner to end auto-reconnect mode and disconnect. You will then be required to make a connection manually through SocketScan 10.
- A manual connection will also be required if the scanner is not powered back on or does not return back in connection range within 3 minutes after a disconnection.
- A connection remains when the smartphone device is in suspend mode.

DISCONNECTING

To manually disconnect, in the SocketScan 10 menu, click **Disconnect CRS**.

Turning off the CRS

To turn off the CRS, press and hold the power button on the wrist unit for at least 2 seconds, until you hear 2 beeps (high – low).

SYMBOLGY SELECTOR

The feature makes it easy to modify which symbologies you want the scanner to recognize. By default, the scanner is set to recognize several of the most common symbologies.



You can configure symbologies only when the CRS is connected to your smartphone.

1. In the SocketScan 10 menu, click **Symbology Selector**.
2. In the screen that appears, press the space key to check the symbologies you wish to enable. Uncheck those you wish to disable.
3. In the Options menu, click **Save**.



Enabling all possible symbologies will make the decode process slightly longer.

SCANNER SETTINGS



You can configure scanner settings only when the CRS is connected to your smartphone.

1. In the SocketScan 10 menu, click **Settings**.
2. In the Settings screen, enter any settings, as desired:
 - **Prefix:** Type characters you would like appended before scanned data (100 character maximum). Besides special data items, only printable ASCII characters can be used.
 - **Suffix:** Type characters you would like appended after scanned data (100 character maximum). Besides special data items, only printable ASCII characters can be used. The default suffix is a carriage return [CR].
 - **Beeper Frequency:** Select the frequency of the beep that the CRS emits to indicate good scans, power on/off, connection/ disconnection, etc.
 - **Good Scan Beep:** Select to have the CRS beep to indicate that data was successfully decoded and transmitted to the smartphone.
 - **Good Scan LED:** Select to have the CRS LED turn green to indicate that data was successfully decoded and transmitted to the smartphone.
 - **Disable Auto Power off:** Select to have the CRS stay on even when there has been no connection to a device for 20 minutes.
3. After entering any settings, in the Options menu, click **Save**.

CS BONDING

This option lets you eliminate the need to enter the passkey every time you connect.

1. In the SocketScan 10 menu, click **CS Bonding**.
2. In the dialog, click **Bond with CS**.
3. A dialog will direct you to enter the passkey the next time you connect to suppress the passkey prompt in the future. Click **OK**.

VERSION INFORMATION

1. In the SocketScan 10 menu, click **About**.
2. A screen will display the SocketScan 10 version number. If the CRS is connected, the CRS firmware version will also be reported.

8 | SETUP FOR NOKIA

This chapter explains how to install and use the Socket *Bluetooth* Cordless Ring Scanner (CRS) with a Nokia E61, E61i or E71.

Note: Other devices running Symbian OS 9.1 or later may be supported.



Before you begin the instructions in this chapter, make sure you have installed the batteries (and tether, if desired), and charged the scanner, as described in Chapter 2, "Hardware Setup."

Setup Summary

- STEP 1: Install SocketScan10 software.
- STEP 2: Turn on the CRS.
- STEP 3: Pair smartphone with CRS.
- STEP 4: Start SocketScan10
- STEP 5: Connect smartphone to CRS.
- STEP 6: Open your application.
- STEP 7: Scan data into your application.

Application Features

- Symbology Selector
- Scanner settings
- Device bonding

Note: Revisions A and B of version 1 of the Socket Bluetooth Cordless Ring Scanner are not compatible with the Nokia E71.

STEP 1: INSTALL SOCKETSCAN 10 SOFTWARE

This User's Guide covers two methods for installing SocketScan 10 software: downloading to the smartphone and synchronizing with a desktop PC.

Downloading to the Smartphone

1. Make sure the smartphone is connected to the Internet.
2. Open the Browser and go to: <http://www.socketmobile.com/nokia>
3. The SocketScan 10 for Symbian installation screen will appear. Read the information in the screen. If you accept the license agreement, click **I Accept**.
4. The download screen will appear. Click **Download**.
5. The smartphone will download and install SocketScan 10.
6. After installation, a dialog will report that installation was successful. Click **OK**.

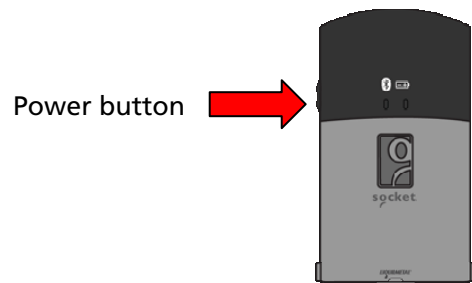
Synchronizing with a Desktop PC

Refer to your Nokia PC Suite manual for complete instructions.

1. Install the SocketScan 10 for Symbian Desktop Installer (SocketScanSymbian_Installer.exe) on your PC.
2. Connect the smartphone to the host PC, using either a cabled or wireless connection.
3. Launch the Nokia PC Suite. Click **Start | Programs | Nokia | Nokia PC Suite**.
4. Use the Nokia PC Suite to install the **SocketScan.SIS** file from the CD into the smartphone. Please refer to your Nokia documentation for instructions.
5. After installation is complete, disconnect the smartphone from the host PC.

STEP 2: TURN ON THE CRS

Press and hold the small power button on the left side of the wrist unit until you hear 2 beeps (low – high).



Note: For more information on beeps and LEDs, see page 10.

After you turn on the CRS, it will have the following sequence of *Bluetooth* modes until it connects to a computer:

Time after turning on scanner	<i>Bluetooth</i> mode
0-5 minutes	Discoverable and connectable
5-20 minutes	Connectable
20 minutes	Scanner automatically powers off

STEP 3: TURN ON *BLUETOOTH* FOR SMARTPHONE

1. Select **Menu | Connectivity | Bluetooth**.
2. Select **Bluetooth | On**.

STEP 4: CONNECT SMARTPHONE TO CRS

1. In the Main Menu, select the **SocketScan 10** folder, then select **SocketScan 10**.
2. The SocketScan 10 main screen will appear, reporting, "Scanner not connected."
3. Select **Options | Connect**.
4. Your smartphone will begin searching for *Bluetooth* enabled devices in range.
5. In the list of found devices, click **Socket CRS [xxxxxx]**.



TIP

The characters in brackets are the last 6 characters of the Bluetooth Device Address, which is printed on a label under the wrist unit.

6. If prompted for a numeric passkey, enter **0000**.

Note: If the passkey 0000 does not work, you may be using an older scanner. Try the passkey 1234.

7. After the smartphone connects to the CRS, the CRS will beep to indicate the connection. The main screen of SocketScan 10 will also report, "Scanner connected."

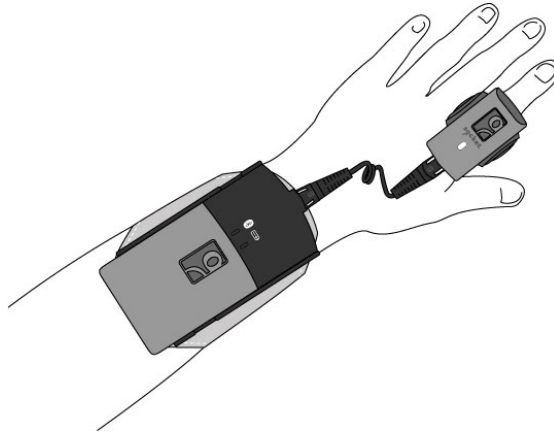


When the scanner is connected, the main screen of SocketScan 10 will report the scanner's battery level.

8. Send SocketScan 10 to the background. In the main screen of SocketScan 10, select **Options | Send to background**.
9. The main menu of the smartphone will appear. SocketScan 10 will continue running in the background, maintaining the connection to the CRS.

STEP 5 ASSEMBLE AND PUT ON THE CRS

If you have not done so already, assemble and put on the scanner, as explained in Chapter 2.



STEP 6: OPEN YOUR APPLICATION

1. Start the application that you want to receive the data (e.g., Notes). Make sure a document or spreadsheet is open.
2. Make sure the application is in Number Mode. The status bar near the top of the screen will display Abc if it is in Alpha Mode, and 123 if it is in Number Mode. To change the mode, press the text entry button and select Number mode.
3. Place the cursor where you want data from the next scan to go.

STEP 7: SCAN DATA INTO YOUR APPLICATION

1. Press the trigger button and aim your finger at the barcode. The red laser beam should cover the entire width of the barcode. For example, try scanning the barcode below:



2. After a successful scan, the scanner will beep, the LED will flash green, laser will turn off, and data will appear in your application. By default, the cursor automatically advances to the next cell or line, ready for the next scan.

Notes:

- See *Appendix B for scanning tips.*
- *If no data is read in a few seconds, the laser will turn off, and you must try again.*

SocketScan 10 Auto-Reconnect

The scanner will disconnect if it is powered off or moves out of connection range. If the scanner is powered back on or returns back in range within 3 minutes after disconnection, SocketScan 10 will automatically attempt re-connection.

- Failure to reconnect will cause the scanner to end auto-reconnect mode and disconnect. You will then be required to make a connection manually through SocketScan 10.
- A manual connection will also be required if the scanner is not powered back on or does not return back in connection range within 3 minutes after disconnecting.
- A connection remains when the smartphone device is in suspend mode.

DISCONNECTING

To disconnect, in the SocketScan 10 menu, select **Disconnect**.

Turning off the CRS

To turn off the scanner, press and hold the power button for at least 3 seconds, until the scanner beeps twice (high-low) and the blue LED turns off.

SYMBOLGY SELECTOR

Note: By default, the scanner reads several of the most common symbologies. You can use this feature only when the scanner is connected to the phone.

1. In the main screen of SocketScan 10, select **Options | Settings**.
2. In the screen that appears, check the symbologies you wish to enable. Uncheck those you wish to disable. Select **OK**.

Note: Enabling all possible symbologies will make the decode process slightly longer.

SCANNER SETTINGS

Note: You can use this feature only when the scanner is connected to the phone.

1. In the main screen of SocketScan 10, select **Options | Settings**.
2. A screen will explain special prefix/suffix options you can configure. Read the information and select **OK**.
3. In the next screen, enter any settings, as desired:
 - **Prefix/Suffix:** Type characters to automatically add before/after scanned data (128 character maximum). Besides special data items, only printable ASCII characters can be used.
 - **Beeper Frequency:** Select the frequency of the beep that the v emits to indicate good scans, power on/off, connection/ disconnection, etc.
 - **Good Scan Beep:** Select to have the scanner beep to indicate that data was successfully decoded and transmitted to the smartphone.
 - **Good Scan LED:** Select to have the scanner LED turn green to indicate that data was successfully decoded and transmitted to the smartphone.
 - **Reconnect Retries:** Select how many times you would like the scanner to try reconnecting to your phone in case they become disconnected.
 - **Reconnect Interval:** Select the amount of time you would like the scanner to wait between reconnect retries.
4. After entering your settings, select **OK**.

VERSION INFORMATION

1. In the main screen of SocketScan 10, select **Options | About**.
2. A screen will display the SocketScan 10 version number. If the scanner is connected, its firmware version will also be reported.

APPENDIX A

SPECIFICATIONS

Note: The following specifications apply only to the latest version of the Bluetooth Cordless Ring Scanner.

Physical Characteristics

Wrist Unit Size: 103 mm (l) x 47 mm (w) x 12 mm (h)
(4.06 x 1.85 x 0.47 inches)

Ring Size: 55 mm (l) x 38 mm (w) x 37 mm (h)
(2.17 x 1.50 x 1.46 inches)

Mass:

Wrist unit with battery: 104 g (3.68 oz)
Ring unit with finger strap: 54.4 g (1.92 oz)
Cable: 10.9 g (0.384 oz)
Wrist strap and wrist unit case: 44.5 g (1.57 oz)
Total: 214 g (7.55 oz)

Power Source: Rechargeable 3.7V 1070 mAh lithium-ion battery

Expected Battery Life with Typical Operation (connected via Bluetooth and minimum 12,000 barcode scans): 10 hours

Environmental Specifications:

Operating Temperature: -4 to +140°F (-20 to +60°C)

Storage Temperature: -40 to +158°F (-40 to +70°C)

Relative Humidity: 5% to 95% non-condensing

Ambient Light: Sunlight: 10,000 ft. candles (107,640 lux)

Artificial light: 450 ft. candles (4,844 lux)

Operating System Support:

- Windows Mobile 2003, 2003SE, 5.0 for Pocket PC /Pocket PC Phone Edition
- Windows Mobile 6 Classic/Professional
- Windows CE.NET for Intermec CK3 (contact Socket technical support for information)
- Windows 7, Vista, XP
- RIM BlackBerry OS for Curve, Bold, Pearl, Storm smartphones
- Symbian OS for Nokia E61, E61i, E71. Other devices running Symbian OS 9.1 or later may be supported.

Bluetooth Stack Support:

Windows Mobile

- Broadcom 1.5 or greater
- Microsoft *Bluetooth* stack for Windows Mobile
- Stonestreet One 1.2.4 (Build 1783)

Windows 8, 7, or XP

- Broadcom 5.1.0.1700 or later
- Microsoft *Bluetooth* stack for Windows XP and Windows Vista
- Toshiba 4.00.34, 5.00.06F or later

Note: Additional Bluetooth stacks may be compatible but have not been tested by Socket.

2005 Sunrise Date Compliant

Scanning Characteristics

Barcode Symbolologies Decoded: Code 39, UPC/EAN/JAN, MSI, Code 128, Code 93, Codabar, Interleaved 2 of 5, Discrete 2 of 5, RSS-14, RSS-Limited, RSS-Expanded, Chinese 2 of 5

Laser: Class 2

Scan Angle: 46.5°

Laser Scanner Performance:

Scan Repetition Rate: 100 scans/sec (bi-directional)

Decode Distances (depends on symbol size, symbology, label media, W-N Ratio, scan angle): 2.00 to 45.00 inches typical

Barcode Symbology Support:

Bookland EAN, Chinese 2 of 5, Codabar, Code 11, Trioptic Code 39 (including VIN numbers), Code 39 Full ASCII, Code 93, Code 128, Discrete 2 of 5, ISBN, ISBT 128, Code 39, GS1 DataBar (formerly RSS), GS1-128 (UCC-128/EAN-128), Interleaved 2 of 5, ISBN, MSI Plessey, UPC/EAN (UPC-A, UPC-E, UPC-E1, EAN-13, EAN-8, UCC/EAN-128), VIN

Some symbologies must be enabled using the Symbology Selector in SocketScan 10 software.

Bluetooth Characteristics

Protocol: *Bluetooth* 2.1 with Enhanced Data Rates (EDR) and Secure Simple Pairing (SSP), 2.45 GHz ISM band frequency hopping

Antenna: Integrated

RF Power: Class 1 *Bluetooth* radio

Typical Output: 12 dbm

Radio Range (depends on environment): Up to 330 ft (100 m) if connected to another Class 1 *Bluetooth* radio

Connection: Point-to-point

Security: Encrypted link 56 bit encryption

Certification/Compliance

Electrical Safety : Certified to CAN/CSA C22.2 No. EN60950-1, EN60825-1, IEC60601

EMI/RFI: FCC Part 15, Class B

Laser Safety : IEC60825-1 Class 2

Environmental : IP54, RoHS

About Bluetooth Range

The *Bluetooth* Cordless Ring Scanner features a powerful Class 1 *Bluetooth* radio to provide the maximum possible range. As with all wireless technologies, the connection range can vary widely depending on many factors such as the class and placement of the *Bluetooth* radio in the host

APPENDIX A: SPECIFICATIONS

device, the type and size of physical obstacles and the presence and activity level of competing radio transmissions.

In range testing of the CRS while connected to a variety of typical host devices with Class 2 radios, functional connection distances from 18 to over 100 feet have been experienced depending on the environment. The following conditions appear to reduce the *Bluetooth* connection range:

- The presence of soft, absorbent materials such as paper, fiberglass insulation, foam material in office cubical walls, carpeting and, to a lesser extent, even sheetrock and wood construction materials.
- Human bodies or containers of liquid positioned between the host and the CRS.
- The presence and activity level of competing *Bluetooth* or 802.11 (Wi-Fi) systems using the same 2.4 GHz frequency.
- Metal in a grid pattern, such as chain link fencing or chicken wire. This type of material may block the *Bluetooth* (or Wi-Fi) signal completely.

APPENDIX B

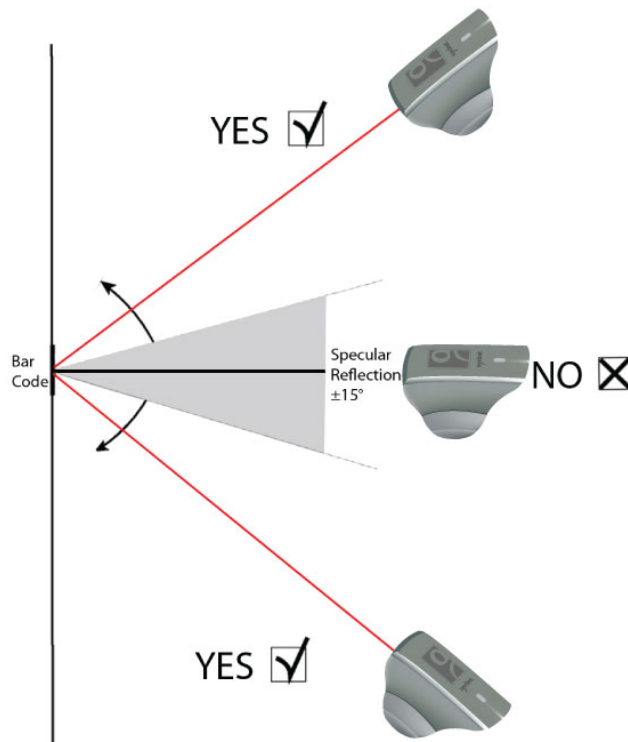
SCANNING, SAFETY AND USAGE TIPS

Scanning Tips

Practice to determine the best scanning angle and distance for your type of barcode.

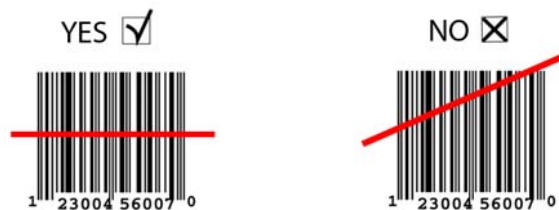
Scan Angle

For best results, position the scanner at an angle to the barcode, at least 15° from perpendicular. Otherwise, light can bounce back into the scanner and “blind” the sensing mechanism.



Aiming Beam

Aim the laser so that the red beam covers the entire width of the barcode.



Scanning Distance

- The optimal scanning distance varies depending on the barcode size, symbology, label media, W-N Ratio, and scan angle. In general, the CRS 9P can successfully scan 1.5 to 45+ inches (3.8 to 144 cm) from the barcode.
- The larger the barcode, the further away you should position the scanner.

The thinner the bars of the barcode (more dense), the closer you should hold the scanner.

About Bluetooth and Health

Bluetooth wireless technology allows you to use short-range radio signals to connect a variety of devices, such as barcode scanners, mobile phones, Pocket PCs, notebook computers, printers, and many other devices at home or work. These radio signals replace the cables that have traditionally connected these devices.

Bluetooth products have small radio transmitters and receivers. Output power is normally very low, only 1 mW (1/1000 of a watt). This gives a working range of approximately 10 meters.

The maximum exposure levels from *Bluetooth* products are far below recommended safety guidelines. At most, typical *Bluetooth* devices (1mW) reach only one percent of the prescribed safety levels.

Product Care

- Do not expose the product to liquid, moisture or extreme humidity.
- Do not expose the product beyond storage temperatures of -40 to +158°F (-40 to +70°C) and do not operate product beyond temperatures of -4 to +140°F (20 to +60°C).
- Do not expose the product to lit candles, cigarettes, or cigars, or to open flames, etc.
- To keep pin contacts clear of dust or deposits, clean pin contacts (5 on wrist unit, 4 on ring unit) with alcohol solution using cotton swabs or alcohol wipes periodically (every week as needed).
- Do not drop, throw or try to bend the product, as rough treatment can damage it.
- Do not paint the product, as paint could obstruct parts and prevent normal use.
- Do not attempt to disassemble the product: a broken warranty seal will void the warranty. The product does not contain consumer serviceable components. Should your product need service, contact Socket technical support (see Appendix H).
- Treat the product with care. Keep in a clean and dust-free place.
- Changes or modifications of the product, not expressly approved by Socket, may void the user's authority to operate the equipment.

Antenna Care

Do not place a metallic shield around the CRS since it will reduce the radio transmission efficiency.

Efficient Use

For optimum performance, make sure there is no metal surrounding the CRS.

Washing Instructions for Wrist Strap, Finger Strap and Wrist Unit Case

	Machine wash cold with like colors.
	Tumble dry low.
	Do not bleach.
	Do not dry clean.
	Do not iron.

Driving

RF energy may affect some electronic systems in motor vehicles, (e.g., car stereo, safety equipment, etc.). Inquire the vehicle maker to verify the CRS will not affect the vehicle's electronics.

Aircraft

- Turn off your CRS before boarding any aircraft.
- To prevent interference with communications systems, you must not use your CRS while the plane is in the air.
- Do not use it on the ground without permission from the crew.

Radio Frequency Exposure

Your CRS contains a radio transmitter and receiver. When in use, it communicates with a *Bluetooth* enabled computer by receiving and transmitting radio frequency (RF) magnetic fields in the frequency range 2400 to 2500 MHz. The output power of the radio transmitter is 0.001 Watt. The CRS is designed to comply with the RF exposure limits set by national authorities and international health agencies¹ when installed or used separately from other antennae or radio transmitters.

¹ Examples of RF exposure standards and guidelines:

ICNIRP, "Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)", International Commission on Non-Ionizing Radiation Protection, Health Physics, vol. 74, pp 494-533, 4/1998.

99/519/EC, EU Council Recommendation on the limitation of exposure to the general public to electromagnetic fields 0 Hz – 300 GHz, Official Journal of the European Communities, 7/1999.

ANSI/IEEE C95.1-1992, "Safety levels with respect to human exposure to radio frequency electromagnetic fields, 3 kHz to 300 GHz", The Institute of Electrical and Electronics Engineers, Inc., New York, 1991.

FCC Report and Order, ET Docket 93-62, FCC 96-326, Federal Communications Commission (FCC), 8/1996.

Radiocommunications (Electromagnetic Radiation Human Exposure) Standard 1999, Australian Communications Authority (ACA), 5/1999.

APPENDIX C

BARCODE LABEL SPECIFICATIONS

All bar code symbols/labels should satisfy the appropriate AIM Uniform Symbology Specification.

Background Substrate:

The barcode symbol should be printed on material (media) that is reflective and has a matte (not glossy) finish. A background diffuse reflectance of at least 70% to 80% is desirable for optimum contrast. Retro-reflective media should be used to obtain decode distances greater than 36 inches.

Ink Color and Type:

The inked bars should not exceed 25% reflectance at the wavelength that is being used for reading, whether printed with black ink or colored ink. The reflectance value should not vary more than 5% within the same character.

Voids and Specks:

The code should be printed clearly, free of voids, specks, blemishes and lines that could "fool" the scanner. Specks or blemishes in the white spaces, or false or missing bar sections could be interpreted by the reading equipment as part of the code. Generally, the width of such flaws is more serious than the height. Code symbols/ labels should be rejected if these defects are present.

Definition:

The bars in the barcode symbol should be well defined. Their edges should not be rough or fuzzy, so that the bars and spaces have the proper widths intended for the barcode symbology used.

Contrast:

Background reflectance (that of the substrate on which the codes are printed) should always provide a good contrast relative to the ink reflectance (that of the code bars). The difference between the two should be at least 37.5% at the wavelength used for reading.

Tolerance:

The ratio of the widths of bars and spaces in a barcode symbol must conform to the appropriate AIM barcode specifications and can cause problems if not correct throughout the barcode. Problems can occur when bar edges are smeared or rough, or when they exhibit voids.

APPENDIX D

ENABLING OR DISABLING SYMBOLOGIES

The Cordless Ring Scanner is pre-set to automatically detect and decode (auto-discriminate) the most common barcode symbologies. To enable or disable symbologies, simply use the SocketScan 10 Symbology Selector.

Notes:

- The length of some symbologies will change after Symbology Selector is used. See Table 1.
- With more symbologies enabled, the scanner must work harder to search through all the possible combinations. This may make the decoding process slightly longer.
- The advanced symbology parameters listed in Table 2 can only be modified by using the SocketScan Advanced Programming Guide or the SocketScan SDK. Check the Socket Mobile website for updates.

Table 1. Default Symbologies

Symbology	Scanner Default	Default Length	Length after Symbology Selector
UPC/EAN/JAN			
UPC-A	Enabled	N/A	N/A
UPC-E	Enabled	N/A	N/A
UPC-E1	Disabled	N/A	N/A
EAN-8	Enabled	N/A	N/A
EAN-13	Enabled	N/A	N/A
Code 128 (USS-128 & UCC/EAN 128)	Enabled	Any	Any
Code 39*			
Code 39	Enabled	2 to 23	2 to 55
Trioptic Code 39	Enabled	2 to 23	2 to 55
Code 39 Full ASCII	Disabled	2 to 23	2 to 55
Code 93	Disabled	2 to 38	2 to 55
Interleaved 2 of 5*	Enabled	14 Only	2 to 55
Discrete 2 of 5*	Disabled	12 Only	2 to 55
Codabar	Disabled	5 to 55	2 to 55
MSI Plessey*	Disabled	1 to 30	2 to 55
RSS-14 (Standard, Limited, Expanded)	Disabled	N/A	N/A

*Warning: Setting the length to "Any" may lead to inaccurate decodes of these symbologies.

Table 2. Other Symbology Parameters

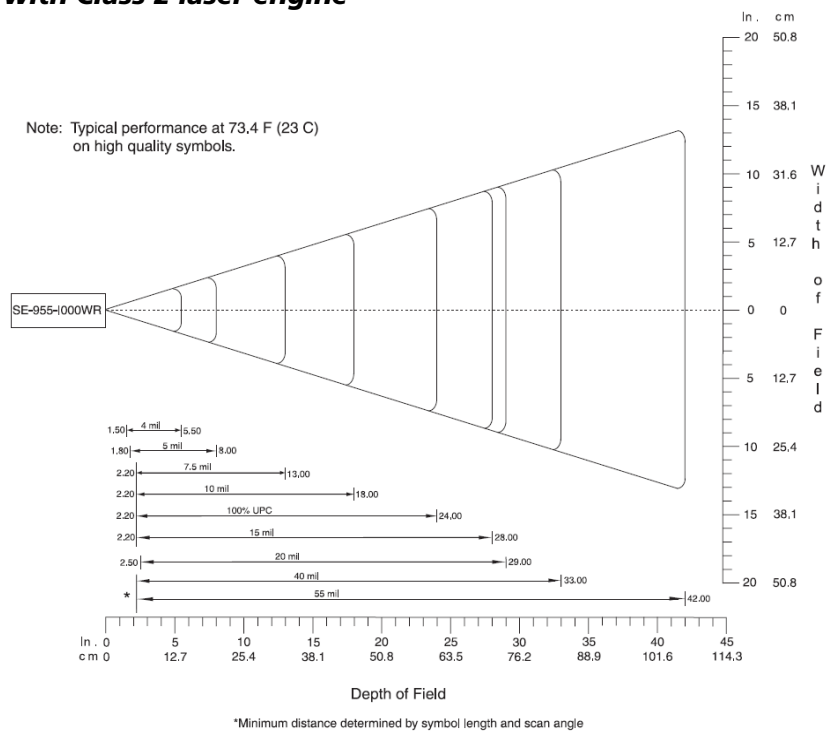
Symbology Parameters	Scanner Default
UPC/EAN/JAN	
Supplementals	Disabled
Transmit Check Digit	Enabled
Bookland EAN	Disabled
Decode UPC/EAN Supplementals	Ignore
UPC/EAN Supplemental Redundancy	Seven
Transmit UPC-A Check Digit	Enabled
Transmit UPC-E Check Digit	Enabled
Transmit UPC-E1 Check Digit	Enabled
Convert UPC-E to A	Disabled
Convert UPC-E1 to A	Disabled
EAN-8 Zero Extend	Disabled
UPC/EAN Security Level	0
UPC/EAN Coupon Code	Disabled
Code 39	
Convert Code 39 to Code 32	Disabled
Code 32 Prefix	Disabled
Check Digit Verification	Disabled
Transmit Check Digit	Disabled
Code 39 Full ASCII	Disabled
Interleaved 2 of 5	
Check Digit Verification	Disabled
Transmit Check Digit	Disabled
Convert I 2 of 5 to EAN-13	Disabled
RSS-14	Disabled
RSS-14 Limited	Disabled
RSS-14 Expanded	Disabled

APPENDIX E

DECODE ZONE

The decode zones for the *Bluetooth* Cordless Ring Scanner is shown below. The minimum element width ("X Dimension" or barcode "size") is the width in thousandths of an inch (mils) of the narrowest element (bar or space) in the symbol. The figures shown are the typical scanning distances (depths of field) for selected barcode sizes. The maximum usable length of a barcode symbol (Width of Field) at any given range is also shown.

CRS 9P with Class 2 laser engine



APPENDIX F

RESTORING FACTORY DEFAULTS

To restore the CRS to its factory defaults, do the following:

1. Turn on the assembled CRS – the ring scanner must be attached.
2. Press and hold both the left and right trigger buttons.
3. While still pressing the left and right trigger buttons, briefly press and release the power button on the wrist unit.
4. Wait 15 seconds or until you hear a single beep.
5. Release both trigger buttons at the same time. If you performed the actions correctly, multiple beeps will sound. The CRS will power off.
6. The next time you power on the CRS, it will reset the virtual memory and scan engine to their factory default settings.

APPENDIX G

SPECIAL SCANNER BEHAVIORS

Special *Bluetooth* Modes for ActivePairing

If the CRS is in ActivePairing mode and has unsuccessfully tried to connect to the computer 20 times (indicated by 2 long beeps with the same tone), the CRS will change to acceptor mode, with the following sequence of *Bluetooth* modes:

Time after 2 long beeps	<i>Bluetooth</i> mode
0-5 minutes	Discoverable and connectable
5-20 minutes	Connectable
20 minutes	Scanner automatically powers off

APPENDIX H

TROUBLESHOOTING

For help on SocketScan 10 for Windows Mobile, tap **Start | Help** on a Pocket PC.

To search the Online Knowledge Base for articles, Frequently Asked Questions or Hot Topics, please visit: <http://support.socketmobile.com/faq>

SYMPTOM: I get the "No Scanner Detected"  icon and can't trigger the laser or scan any barcodes.

POSSIBLE REASON	SOLUTION
The <i>Bluetooth</i> Cordless Ring Scanner is not connected to your computer	Make sure the <i>Bluetooth</i> Cordless Ring Scanner is on and in range and has enough battery power. Try to reconnect by clicking on the SocketScan 10 task tray icon and clicking Connect CS .

SYMPTOM: When I try to scan, the laser activates, but no data appears on my screen, and the laser eventually turns off.

POSSIBLE REASON	SOLUTION
The scanner is too close or too far from the barcode.	Practice so you get accustomed the most effective distance and scanning angle.
The barcode is incorrectly formatted or poorly printed.	Try scanning a barcode that is correctly formatted or printed well, such as on a retail package.
The barcode symbology may be disabled or not supported by the <i>Bluetooth</i> Cordless Ring Scanner.	Use Scan Demo for Windows Mobile to identify the symbology. If needed, enable the symbology by using Symbology Selector.
You don't have an application open to scan data into.	Open an application and place the cursor where you want scanned data to go. Try scanning again.

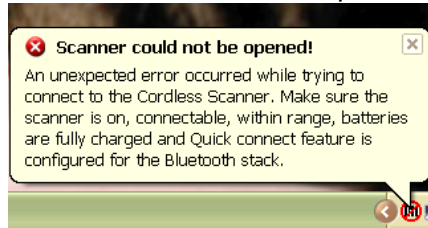
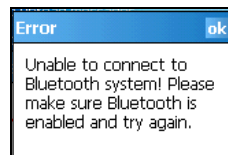
SYMPTOM: When I try to access SocketScan 10 Settings, nothing happens.

POSSIBLE REASON	SOLUTION
You tried to install SocketScan 10 on a Windows computer while not logged into an administrative account.	Log into an administrative account then uninstall and reinstall SocketScan 10.

SYMPTOM: When I try to install SocketScan 10, an error message says Access is denied.

POSSIBLE REASON	SOLUTION
You tried to install SocketScan 10 on a Windows computer while not logged into an administrative account.	Abort the process. Log into an administrative account and restart the installation.

SYMPTOM: My computer cannot find the CRS, and/or I get an error message saying that the scanner could not be opened or there are connection problems.



POSSIBLE REASONS	SOLUTION
The <i>Bluetooth</i> COM port listed in SocketScan 10 Settings is incorrect. This problem is more likely with a Windows XP, Vista or 7 host.	Review Chapter 3, Step 5 of this User Guide, then confirm that the correct <i>Bluetooth</i> COM port is assigned in SocketScan 10 Settings.
The <i>Bluetooth</i> Cordless Ring Scanner is not turned on.	Turn on the <i>Bluetooth</i> Cordless Ring Scanner.
You have assigned another device as your favorite or default <i>Bluetooth</i> serial device.	Remove any settings that assign another device as your favorite <i>Bluetooth</i> serial device. Refer to the documentation for your <i>Bluetooth</i> software for instructions.
You did not start the <i>Bluetooth</i> software.	Start the <i>Bluetooth</i> software. Refer to the documentation for your <i>Bluetooth</i> software for instructions.
The <i>Bluetooth</i> radio of your computer is not turned on.	Turn on the <i>Bluetooth</i> radio of your computer. Refer to the documentation for your <i>Bluetooth</i> software for instructions.

SYMPTOM: While scanning, I turned off the PDA, or my PDA entered suspend mode. Now the CRS won't reconnect to my PDA.

POSSIBLE REASONS	SOLUTION
There is a known problem with the Broadcom (Widcomm) stack on some devices where the CRS can be discovered but fails to communicate. Affected units include the HP iPAQ models h221X with ROM version 1.10 and h1945.	Soft reset the Pocket PC by pressing the reset button.

SYMPTOM: When I scan a lot of barcodes very fast, the scanner locks up and won't work for a few seconds.

POSSIBLE REASONS	SOLUTION
You are scanning too fast for the Error Proof Protocol to confirm that the host computer has successfully received each scan of data.	Wait for the confirmation beep after each scan before you scan a new barcode.

SYMPTOM: My PDA reports that there are insufficient device resources.

POSSIBLE REASONS	SOLUTION
Some HP iPAQ Pocket PCs are not compatible with the Cordless Ring Scanner.	The CRS will not work with your Pocket PC at this time.

SYMPTOM: When I try to connect with ActivePairing to a Windows XP or Vista computer, the Bluetooth software indicates that the CRS has connected, but when I try to scan data, it does not enter into my application.

POSSIBLE REASONS	SOLUTION
Your computer has multiple incoming Bluetooth serial ports enabled.	Use your Bluetooth utility to disable extra incoming Bluetooth serial ports.
SocketScan 10 is not running.	Start SocketScan 10.

SYMPTOM: When I try to connect my PC to a different CRS, SocketScan 10 reports the Friendly Name of the last CRS connected to the PC, I cannot modify any Advanced settings or symbologies, and/or the Permanent Pair option is missing.

POSSIBLE REASONS	SOLUTION
This is a known issue in SocketScan 10 for Windows XP and Vista.	Close and restart SocketScan 10 and reconnect.

SYMPTOM: My CRS no longer connects to my PC after Suspend/Resume.

POSSIBLE REASONS	SOLUTION
This is a known issue with the Microsoft Bluetooth stack in Windows Vista when using a USB Bluetooth adapter. Bluetooth connection settings can sometimes become corrupted after the computer suspends and resumes.	Do not remove the CRS from the device list. Make sure the CRS is discoverable and connectable. In the Microsoft Bluetooth software, select add new device, then select the existing Socket CRS in the Bluetooth device list (its status may be shown as "Already Connected"), and click Next. When prompted, re-enter the passkey. In the last screen, click Finish.

SYMPTOM: While scanning, I turned off the Pocket PC, or my Pocket PC entered suspend mode. Now my Pocket PC won't turn on again.

POSSIBLE REASONS	SOLUTION
This is a known problem with the Widcomm stack (built into HP h221X iPAQ Pocket PCs with ROM version 1.00).	Soft reset the Pocket PC by pressing the reset button.

APPENDIX I

TECHNICAL SUPPORT

If you have trouble installing or using the CRS, Socket has different support options to help you.

Online Knowledge Base: Search for articles, Frequently Asked Questions or Hot Topics 24 hours a day. <http://support.socketmobile.com/faq>

Online Requests: Register your product and submit a question to our Technical Support Team. <http://support.socketmobile.com>

By Phone:

- USA & Canada Toll-Free: 800-279-1390
- Direct: +1- 510-933-3020

LIMITED WARRANTY

Socket Mobile Incorporated (Socket) warrants this product against defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase or 5 million actuations (trigger presses), whichever occurs first. Product must be purchased new from a Socket Authorized Distributor or Reseller. Used products and products purchased through non-authorized channels are not eligible for this warranty support.

EXCEPTIONS: Consumables such as batteries, removable cables, cases, straps, styli, memory cards, chargers, and CF-to-PC Card adapters: 90 day coverage only

An enhanced warranty is available separately for some Socket products. For more information, please visit: <http://support.socketmobile.com>

Incompatibility is not a defect covered by the Socket warranty. During the warranty period, Socket will, at its option, repair or replace the defective product at no charge when furnished with proof of retail purchase, provided that you deliver the product to Socket or to an authorized Socket Service Center.

The returned product must be accompanied by a return material authorization (RMA) number issued by Socket or by an authorized Socket Service Center. If you ship the product, you must use the original container or equivalent and you must pay the shipping charges to Socket. Socket will pay surface shipping charges back to any location in the contiguous United States. This warranty applies only to the original retail purchaser and is not transferable.

Socket may, at its option, replace or repair the product with new or reconditioned parts and the returned product becomes Socket property. Socket warrants the repaired or replaced products to be free from defects in material or workmanship for ninety (90) days after the return shipping date, or for the remainder of the original warranty period, whichever is greater.

This warranty does not cover the repair or replacement of products damaged by abuse, accident, lost products, use beyond Socket's published specifications, liquid immersion, misuse or misapplication, damages caused by an act of God, nor as a result of service or modification other than by Socket unless specifically described by Socket in product documentation. This warranty does not provide coverage for any product updates, for example, updates due to design changes, except as deemed necessary by Socket, and does not cover any calibration or adjustments necessary for product functionality. This warranty does not cover refurbishing cosmetic damages such as scratched paint, cases or LCD screens. This warranty is void if you install batteries into the product that were not supplied or approved by Socket.

SOCKET IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING DAMAGE TO PROPERTY AND, TO THE EXTENT PERMITTED BY LAW, DAMAGES FOR PERSONAL INJURY. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some states do not allow limitation of implied warranties, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state. This product may contain fully tested, recycled parts, warranted as if new. For more warranty information: <http://support.socketmobile.com>

PRODUCT DISPOSAL: Your device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.



LIMITED SOFTWARE WARRANTY

LIMITED WARRANTY. Socket Mobile, Inc. (Socket) warrants that the original disk or CD ROM is free from defects for 90 days from the date of delivery of the SOFTWARE.

CUSTOMER REMEDIES. The entire liability of Socket and your exclusive remedy shall be, at the option of Socket, either (a) return of the price paid or (b) replacement of the SOFTWARE which does not meet the Socket Limited Warranty and which is returned to Socket with a copy of your receipt. Any replacement SOFTWARE will be warranted for the remainder of the original warranty period or 30 days, whichever is longer. THESE REMEDIES ARE NOT AVAILABLE OUTSIDE OF THE UNITED STATES OF AMERICA.

NO OTHER WARRANTIES. Socket disclaims all other warranties, either express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose, with respect to the SOFTWARE and the accompanying written materials. This limited warranty gives you specific legal rights. You may have others which vary from state to state.

NO LIABILITY FOR CONSEQUENTIAL DAMAGES. In no event shall Socket or its suppliers be liable for any damages whatsoever (including, without limitation, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use of or inability to use the SOFTWARE, even if Socket has been advised of the possibility of such damages. Because some states do not allow the exclusion or limitation of liability for consequential or incidental damages, the above limitation may not apply to you.

EXPORT LAW ASSURANCES. You may not use or otherwise export or reexport the SOFTWARE except as authorized by United States law and laws of the jurisdiction in which the SOFTWARE was obtained. In particular, but without limitation, none of the SOFTWARE may be used or otherwise exported or reexported (a) into (or to a national or resident of) a United States embargoed country or (b) to anyone on the U.S. Treasury Department's list of Specially Designated Nationals or the U.S. Department of Commerce's Table of Denial Orders. By using the SOFTWARE, you represent and warrant that you are not located in, under control of, or a national or resident of any such country or on any such list.

GOVERNMENT END USERS. If the SOFTWARE is supplied to the U. S. Government, the SOFTWARE is classified as "restricted computer software" as defined in clause 52.227-19 of the FAR. The U. S. Government 's rights to the SOFTWARE are as provided in clause 52.227-19 of the FAR.

CONTROLLING LAW AND SEVERABILITY. This License shall be governed by the laws of the United States and the State of California. If for any reason a court of competent jurisdiction finds any provision, or portion thereof, to be unenforceable, the remainder of this License shall continue in full force and effect.

REGULATORY COMPLIANCE

The *Bluetooth* Cordless Ring Scanner is designed to be compliant with the rules and regulations in locations where they are sold and will be labeled as required. This product is type approved — users are not required to obtain license or authorization before using.

This product has been certified as conforming to technological standards. Therefore, the following actions are punishable by law:

- Disassembly or modification of this product
- Removal of identification labels on the back of the product

The frequency used by this product is also used by industrial, scientific and medical devices, such as microwave ovens, as well as wireless detectors for motion detectors, such as those requiring licenses used on manufacturing lines or similar radio transmitters (all of these wireless devices will be called “other wireless transmitters” below). Most modern electronic equipment (e.g., in hospitals and cars), is shielded from RF energy. However, certain electronic equipment is not.

1. Please ensure that all medical devices used in proximity to this device meet appropriate susceptibility specifications for this type of RF energy.
2. In the unlikely event that there is electronic interference between this system and other wireless transmitters, quickly change the location of operation or stop operating the unit (cease signal transmission).
3. If other electrical interference or related problems occur, contact Socket technical support at <http://support.socketmobile.com/>

Radio Frequency Interference Requirements

This device complies with part 15 of the FCC rules and Industry Canada Radio Standard RSS 210. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment is also ETS EN300 328, ETS EN301 489-1 and ETS EN301 489-17 compliant. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

This equipment generates and radiates radio-frequency energy. To comply with FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: (1) Users are not permitted to make changes or modify the system in any way, and (2) connecting external antennas to the Cordless Ring Scanner is prohibited. This device and its antenna must not be co-located or operated with any other antenna or transmitter. End-users and installers must be provided with installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

To comply with Industry Canada RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied: “The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, available at <http://www.hc-sc.gc.ca>

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user may try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the radio or television.
- Increase the distance separating the equipment and the receiver.
- Connect the equipment to an outlet on a different branch circuit than that of the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet helpful: *How to Identify and Resolve Radio-TV Interference Problems*. This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402.

Radio Frequency Interference Requirements – Canada

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le Matériel Brouilleur du Canada.

CE Marking & European Union Compliance

Products intended for sale within the European Union are marked with a CE Mark which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directives or ENs are included: Normes (EN), as follows:

Applicable Directives:

- Radio and Telecommunications Terminal Equipment Directive 1999/5/EC
- Low Voltage Directive 73/23/EEC

Applicable Standards:

- ETSI EN 301 489-17 V 1.5.1 (2004-11) – Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific Conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance WLAN equipment.
- ETSI EN 300 328 V1.6.1 – Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.
- EN61000-4-2 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 2: Electrostatic Discharge Requirements.
- EN61000-4-3 – Electromagnetic Compatibility for Industrial Process Measurement and Control Equipment, Part 3: Radiated Electromagnetic Field Requirements.

LASER DEVICE:

The Socket barcode scanning product(s) described in this *User's Guide* contain a Symbol SE955 scan engine with a Class 2 laser, for which the following applies:

- Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.
- Complies with IEC60825-1:2001-08
- Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

A label such as the one below appears on the end product.



Example of Class 2 Laser Warning Label

THE LASER WARNING APPEARS INSIDE THE LEFT TRIGGER BUTTON OF THE RING UNIT.

Battery Warning:

- Your device contains a rechargeable Lithium-Ion battery. Never throw the battery into a fire, as that could cause the battery to explode.
- Never short-circuit the battery by bringing the terminals in contact with another metal object. This could cause personal injury or a fire, and could also damage the battery.
- Never dispose of used battery with other ordinary solid wastes. Batteries contain toxic substances.
- Dispose of used battery in accordance with the prevailing community regulations that apply to the disposal of batteries. Cover the metal terminals with insulating tape. (This is to prevent accidental short-circuiting).
- Never expose the battery to any liquid.
- Always keep the battery out of reach of infants or small children.
- Never shock the battery by dropping it or throwing it.
- Dispose of a spent or damaged battery promptly.

Product Disposal

Your device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.

